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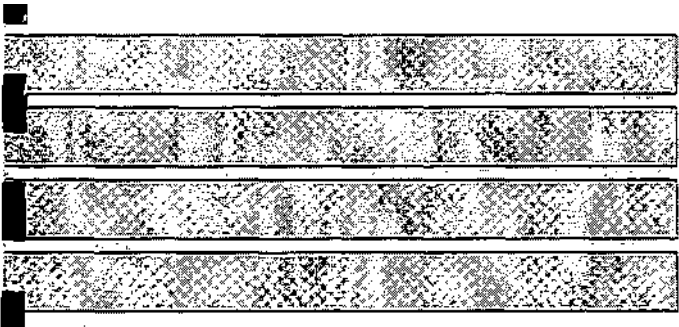
Continued Operation of a Raingage Network for the Imperial Valley Water Authority Year Five: September 1996 - August 1997

by

Steven E. Hollinger and Robert W. Scott

**Prepared for the
Imperial Valley Water Authority**

April 1998



Illinois State Water Survey
Atmospheric Sciences Division
Champaign, Illinois

A Division of the Illinois Department of Natural Resources

**CONTINUED OPERATION OF A RAINGAGE NETWORK
FOR THE IMPERIAL VALLEY WATER AUTHORITY,
YEAR FIVE: SEPTEMBER 1996 - AUGUST 1997**

Steven E. Hollinger

and

Robert W. Scott

REPORT

to

Imperial Valley Water Authority

on Contract

Imperial Valley 223

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FOR THE IMPERIAL VALLEY WATER AUTHORITY
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INTRODUCTION

Regional precipitation variability affects irrigation water demand on an aquifer, the recharge of the aquifer, and the density of wells and irrigation systems required for agriculture and water supplies. These factors all impact any required water withdrawal allocations from an aquifer. Therefore, knowledge of the precipitation variability over an extensively irrigated region, such as the area within the Imperial Valley Water Authority (IVWA), should provide useful information for the management of ground-water resources in that region.

At present, the measurement of precipitation is best accomplished by a dense network of raingages over a long period of time. A relatively dense raingage spacing is needed to capture both summertime convection, which can be quite variable, and more widespread wintertime precipitation events. A relatively long time period is necessary to capture short-term climatological shifts such as abnormally wet or dry periods and even normal periods. Such networks provide the data necessary to understand the variability of precipitation patterns both spatially and temporally, and thus the spatial and temporal variations in the recharge of the soil and ground water within the network area. The data help identify the extent of areas susceptible to heavy irrigation water use and/or areas of poor recharge. Combined with ground-water data, these precipitation data can provide the inputs needed for estimates of recharge to the ground-water resources within the network area.

During the last 40 years, the Illinois State Water Survey (ISWS) has operated raingage networks of varying areal gage densities over various time periods in both rural and urban areas. Sampling requirements, as determined from these past studies (e.g., Huff, 1970), indicate that a 2- to 3-mile gridded raingage spacing should be adequate for properly capturing convective precipitation systems (spring and summer), while a 6-mile spacing is adequate for more widespread precipitation-producing systems (fall and winter). The weighing-bucket raingage provides precise and reliable precipitation measurements. Given the size of the IVWA area and the above spacing guidelines, a gridded, 25-site raingage (Figure 1) network with approximately 5 miles between gages was proposed.

The ISWS has a long-term interest in precipitation measurement and related research, and has performed precipitation research in areas such as hydrology, weather modification, climate change, and urban influences on precipitation climate. The data collected by a raingage network such as the IVWA Network would be useful in similar research.

An agreement was reached between the IVWA and the ISWS in spring 1992, and the 25-site network was deployed in late August 1992. Results of the previous years of the network operation are reported in Peppier and Hollinger (1994, 1995), Hollinger and Peppier (1996), and Hollinger(1997).

This report documents the operation, maintenance, data reduction and analysis, and management of the network during its fifth year of operation (September 1996-August 1997). Data showing the differences among the first five years of operation are included. Several appendices document the actual raingage sites (Appendix I); instructions for raingage technicians

(Appendix II); raingage maintenance (Appendix III); graphs of monthly rainfall for each site (Appendix IV); and unusually large precipitation events recorded during the year, monthly precipitation variability at each of the sites, and total rainfall during each storm period in the five years of operation (Appendix V).

NETWORK OPERATION AND MAINTENANCE

Peppier and Hollinger (1994) provide descriptions of construction of the IVWA Network and the type and setup of the weighing-bucket raingages used to collect precipitation. Appendix I gives complete site description information for each network raingage location as of August 31, 1997. During the fifth year of operation, local observers continued to perform weekly raingage maintenance at 11 sites. The remaining nine sites were maintained by a local resident of Mason County hired to remove the charts once a month and serve as a local resource for the other volunteer local observers. Except for the monthly raingages (sites 2, 3, 6, 7, 10, 12, 15, 18, and 20), the raingages were serviced every 6 to 11 days. Servicing included removing and replacing the current chart, checking the felt-tipped pen to make sure it was inking properly, dumping the bucket contents from approximately April-October, and noting any unusual problems, including chart-drive malfunction, gage imbalance or instability, vandalism, unauthorized movement of the gage, etc. During the warm season, evaporation shields were fitted into the collection orifice above the bucket to minimize evaporation. During the cold season, a 1-quart charge of antifreeze was added to each raingage bucket so that any frozen precipitation collected would be melted to allow a proper weight reading, and to prevent freeze damage to the collection bucket. Approximately once a week, the local observers mailed their charts to the ISWS. Refer to Appendix II for a complete description of servicing instructions for raingage observers.

Minor maintenance and repairs were performed by the paid observer in Mason County. As needed, Champaign-based personnel visited the network to perform major maintenance and repairs. This usually consisted of a site assessment of an observer-noted problem and the determination of a solution. Because most problems pertained to the chart drives, the usual solution was to adjust or replace the chart drive. If replaced, the defective chart drive was cleaned and readied for reuse at the ISWS. Other typical problems, mentioned above, were also solved on these trips. Appendix HI documents nonroutine maintenance or repairs, including any site relocations, for the 20 raingages during Year Five.

DATA REDUCTION

Data reduction activities during Year Five of network operation included those performed during the first four years. See Peppier and Hollinger (1994) for complete details on these tasks. The number of storm events and storm days at each station were determined for the five-year period. A storm day was defined as any day that measurable precipitation was recorded at a given station. Precipitation events were defined by the first hour that rainfall was recorded and continued through each consecutive hour that precipitation occurred. If there was a break of at least one hour in precipitation, the next hour with measured precipitation was considered a new rain event.

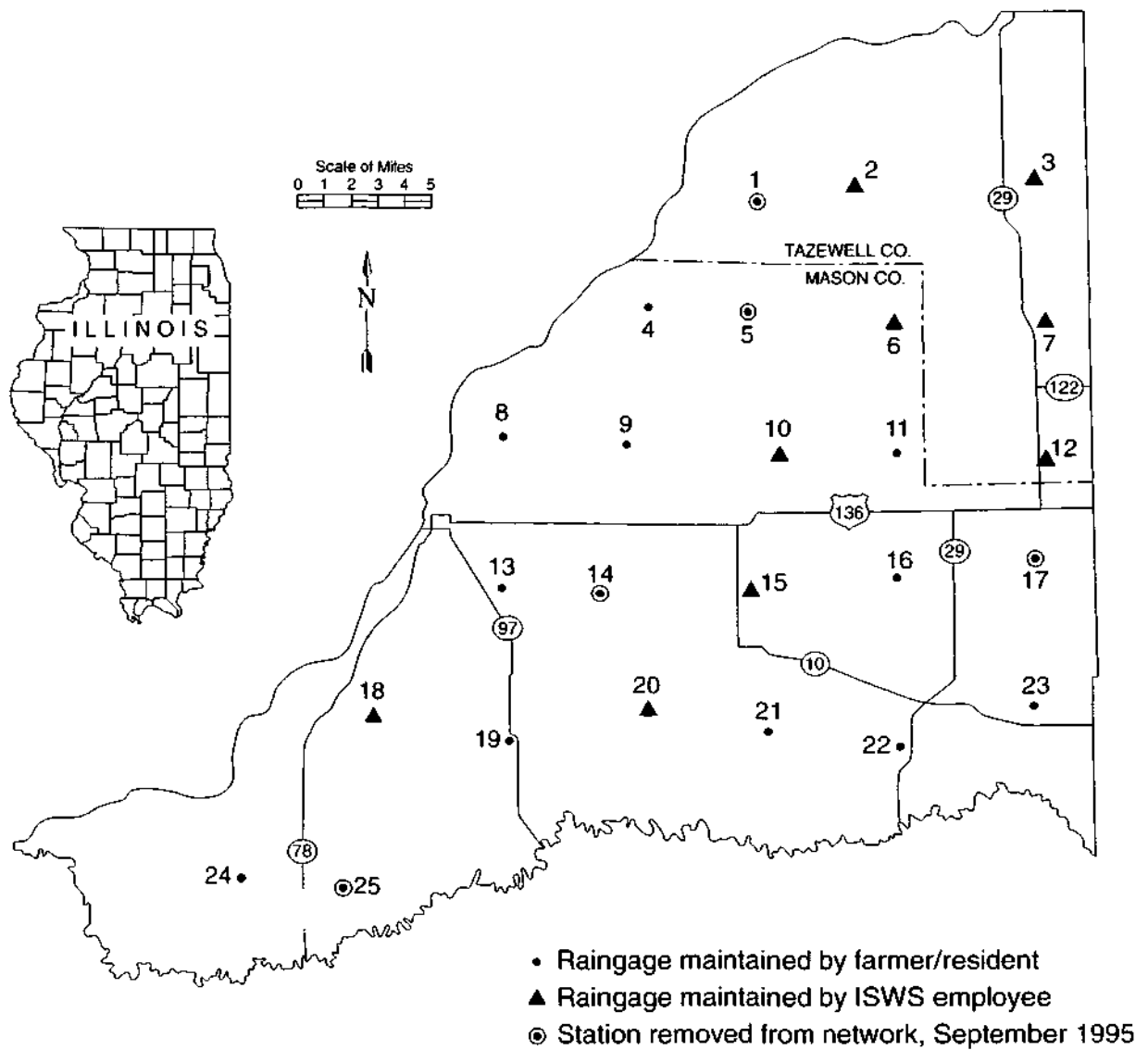


Figure 1. Configuration of the 25-site Imperial Valley Water Authority raingage network as established in 1992 and modified in September 1995

Network storm periods were also defined. A storm period is defined as a precipitation event separated from preceding and succeeding events at all stations in the network by three hours, and at any one station storms must be separated by six hours. Appendix V presents the storm period data.

DATA ANALYSIS

Table 1 contains monthly and annual (September 1996-August 1997) precipitation amounts for each site in the IVWA Network. The annual rainfall pattern for Year Five is shown in map form (Figure 2b) along with the average for the first four years of network operation (Figure 2a). Figures 3-8 show the monthly rainfall patterns for Year Five. Figure 9 shows the monthly network average precipitation from September 1992 through August 1997, and Figure 10 compares 1996-1997 monthly network average rainfall to the mean monthly rainfall for the first four years.

Table 1 shows that precipitation totals for the current year ranged from 33.04 inches at site 16 northwest of Mason City to 23.88 inches at site 6 south-southeast of Manito. The August 1997 datum for site 4 is estimated from the nearest stations using a distant weighted algorithm.

The network average for 1996-1997 was 27.58 inches, 1.88 inches greater than the 1995-1996 average, 11.84 inches less than the 1994-1995 average, 12.63 inches less than the 1993-1994 average, and 27.97 inches less than the flood year of 1992-1993 average. Compared to 1961-1990 normal values at the Havana and Mason City National Weather Service cooperative stations (37.24 and 35.08 inches, respectively), the fifth-year network average was 7.50 to 9.66 inches below normal. Figure 2 shows the rainfall patterns for the fifth year of network operation, and the average annual pattern for the 1992-1996 period. The annual average rainfall during the first four years of the network operation were wettest in the southwestern part of the network with amounts greater than 36 inches per year (Figure 2a), and relatively uniform across the rest of the network. The "bull's-eyes" around sites 6, 8, 19, and 21 (Figure 2a) should disappear as more years are added to the record. Annual rainfall during the 1996-1997 observation year (Figure 2b) was most uniform across northern Mason and southern Tazewell counties, which was also the driest region of the network. Across the rest of the network, large gradients were observed due to heavy localized annual precipitation at sites 2, 13, and 16.

August 1997 (Figure 8a) was the wettest month of the year (4.42-inch network average), followed by February 1997 (Figure 5b, 3.88 inches), May 1997 (Figure 7a, 3.02-inch average), and July 1997 (Figure 8a, 2.55-inch average). Rainfall in August was lightest in the western and northern regions of Mason County (Figure 8b). February precipitation was heaviest in the northern part of the network and lightest in the southeast (Figure 5b). The precipitation in May was heaviest along an east-west line just south of route U.S. 136 with lighter rainfall north and south of that line (Figure 7a). July rainfall (Figure 8a) was heaviest in the south central part of the network and lightest in the north, with sites 2 and 3 receiving less than 1 inch of rainfall.

December 1996, January 1997, and September 1996 were the driest months. December recorded less than 1 inch of precipitation. During December, the driest portion of the network was in the southeast (Figure 4b). January precipitation was rather uniform across the network with a precipitation range of 1.02 to 1.71 inches (Figure 5b). September precipitation was

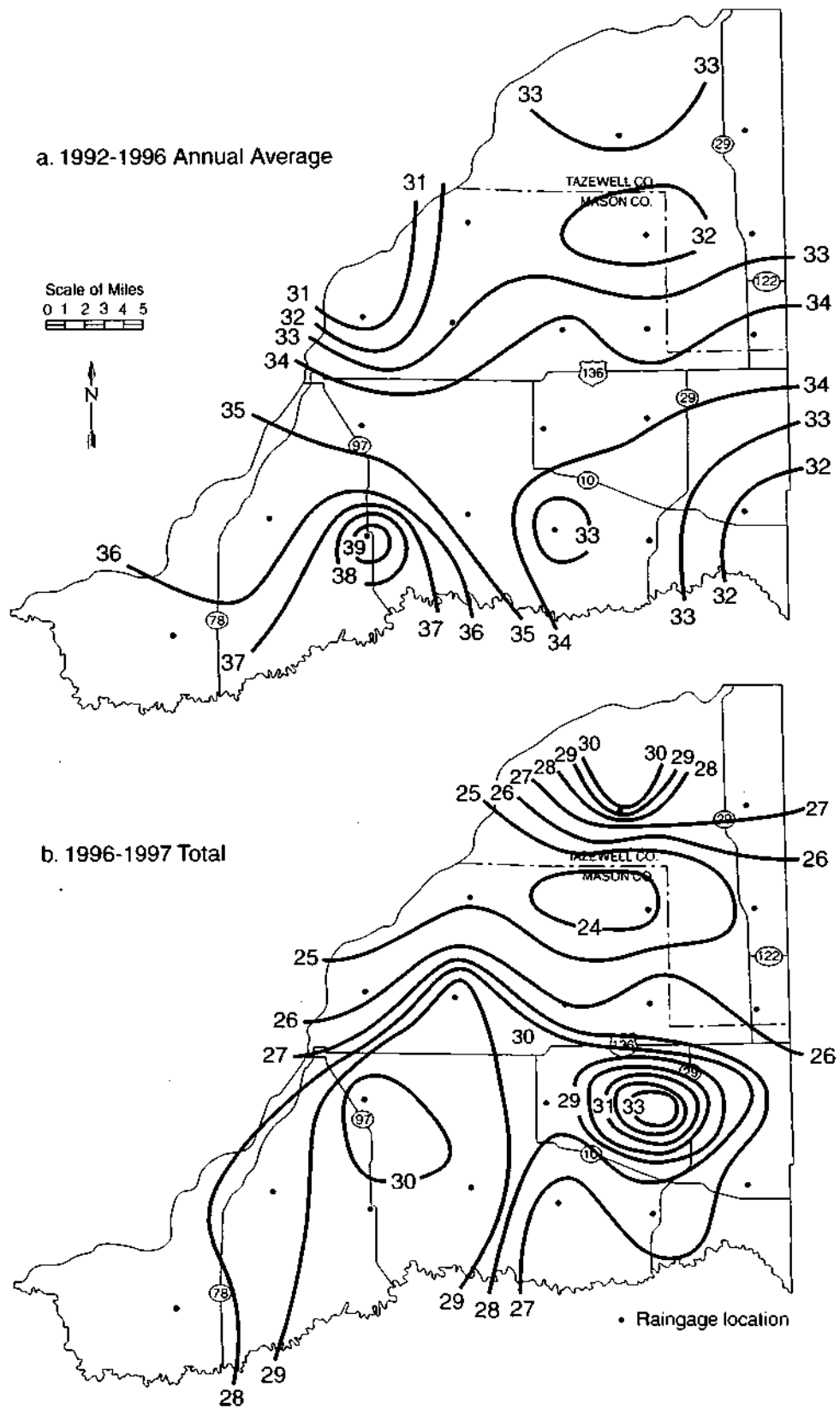


Figure 2. Precipitation pattern (inches) for a) 1992 to 1996 average annual September to August, and b) September 1996 to August 1997

Table 1. Monthly Precipitation Amounts for September 1996 to August 1997 (inches)

<i>Site #</i>	<i>Month</i>												<i>Total</i>
	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>Aug</i>	
2	1.78	1.93	2.85	1.12	1.24	5.71	2.05	2.91	1.70	2.67	0.66	5.71	30.33
3	1.57	1.73	1.88	1.25	1.30	4.16	1.82	2.58	1.99	2.45	1.01	5.34	27.08
4	1.58	1.77	2.17	0.86	1.02	4.62	2.05	2.11	2.42	1.65	1.00	3.73	24.98*
6	1.50	1.96	1.90	1.26	1.07	3.73	1.83	1.95	1.82	2.20	1.15	3.51	23.88
7	1.47	1.75	2.09	0.88	1.35	3.64	1.65	1.55	2.28	2.65	1.84	4.23	25.38
8	1.77	1.77	1.99	0.82	1.09	4.03	2.06	1.69	2.96	2.01	2.09	3.04	25.32
9	1.40	1.94	2.39	1.07	1.34	4.33	2.00	1.59	3.12	2.57	1.96	5.49	29.20
10	1.53	1.51	1.89	0.97	1.17	3.80	1.78	1.65	3.05	1.82	2.37	4.35	25.89
11	1.53	2.11	2.16	1.00	1.28	3.55	1.62	1.62	2.64	1.84	2.66	4.50	26.51
12	1.76	1.97	2.15	0.53	1.30	3.19	1.62	1.65	3.63	1.95	1.97	4.11	25.83
13	1.72	1.77	2.02	1.15	1.30	4.29	2.15	1.48	4.10	1.71	3.94	4.49	30.12
15	1.55	2.34	2.17	0.60	1.06	3.65	1.40	1.52	3.62	1.81	3.27	5.13	28.12
16	1.22	2.07	3.00	0.71	1.17	4.35	2.64	1.79	4.64	3.50	3.32	4.63	33.04
18	2.06	2.26	1.82	1.39	1.71	4.13	2.57	1.52	3.43	1.59	2.79	3.22	28.49
19	1.91	1.78	2.32	1.02	1.30	4.23	2.23	1.78	3.00	1.34	3.31	5.68	29.90
20	1.47	2.11	2.06	0.58	1.11	3.33	2.00	1.75	3.15	1.80	4.90	5.66	29.92
21	1.33	1.71	2.14	0.40	1.20	2.93	1.72	1.04	2.96	1.29	4.87	4.53	26.12
22	1.09	2.43	2.45	0.46	1.31	3.28	1.93	1.27	3.30	1.89	3.91	4.06	27.38
23	1.58	2.91	2.28	0.69	1.42	2.85	2.04	1.22	3.82	1.59	2.22	3.81	26.43
24	2.33	2.05	2.17	1.05	1.36	3.83	1.90	2.52	2.83	2.63	1.76	3.19	27.62
Average	1.61	1.99	2.20	0.89	1.26	3.88	1.95	1.76	3.02	2.05	2.55	4.42	27.58

Notes: Stations 1, 5, 14, 17, and 25 were removed from network in September 1995.

* Data estimated from nearest stations.

heaviest in the southwest and lightest in the central part of the network (Figure 3a).

October rainfall was heaviest in the extreme southeastern part of the network and lightest in the north (Figure 3b). Rainfall during the months of November (Figure 4a), and March (Figure 6a) was relatively uniform. In June (Figure 7b) a rainfall gradient of 1.5 inches occurred with the lightest rainfall in the extreme southern part of the network and the heaviest around station 16. During April (Figure 6b) the heaviest rainfall amounts were recorded in the southwestern and northern regions of the network.

The summer of 1997 (June-August) was the wettest season of the year (Table 2) followed by spring, winter, and autumn. Summer rainfall was greater than the 1995 and 1996 summers but

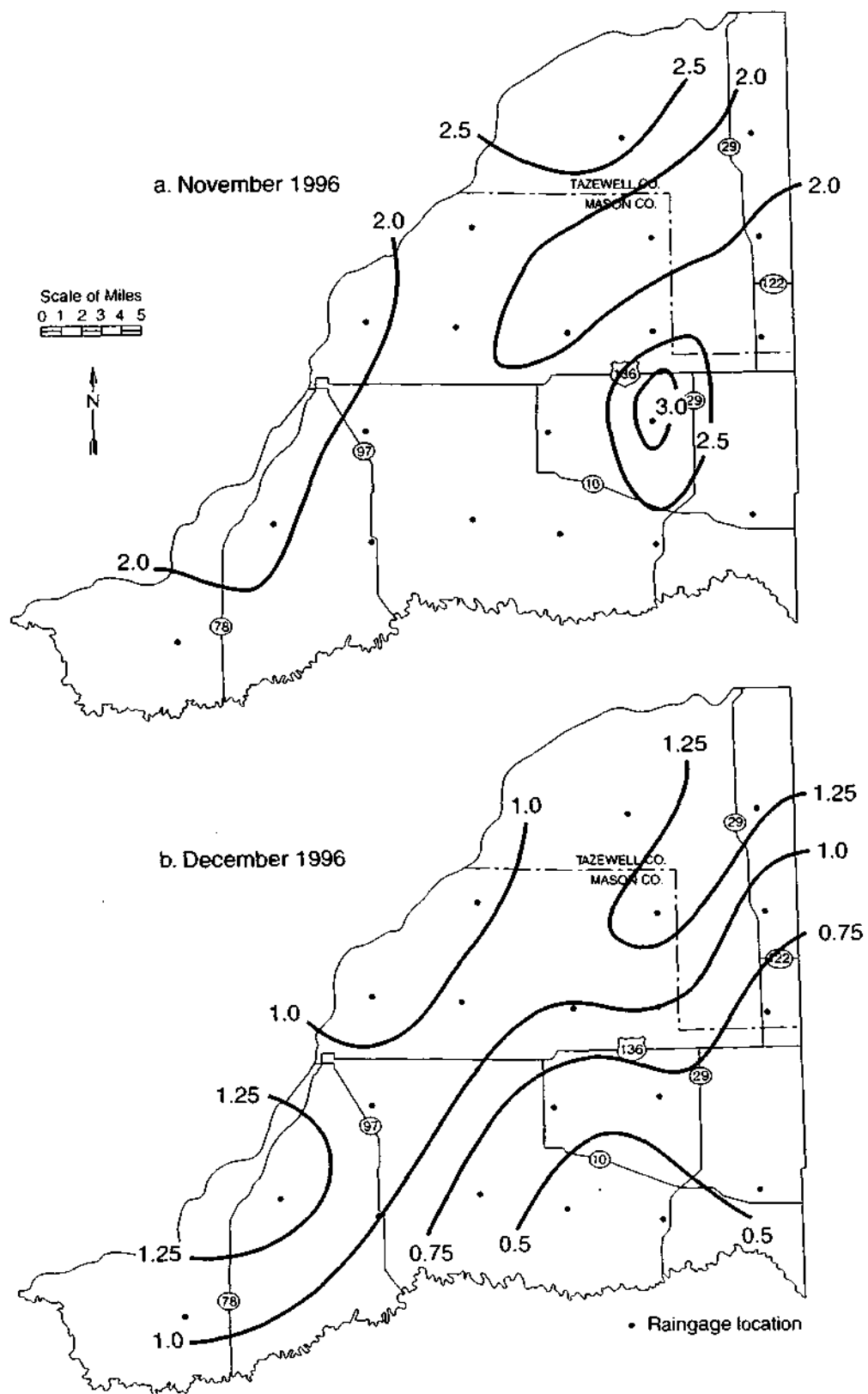


Figure 4. Precipitation pattern (inches) for a) November 1996, and b) December 1996

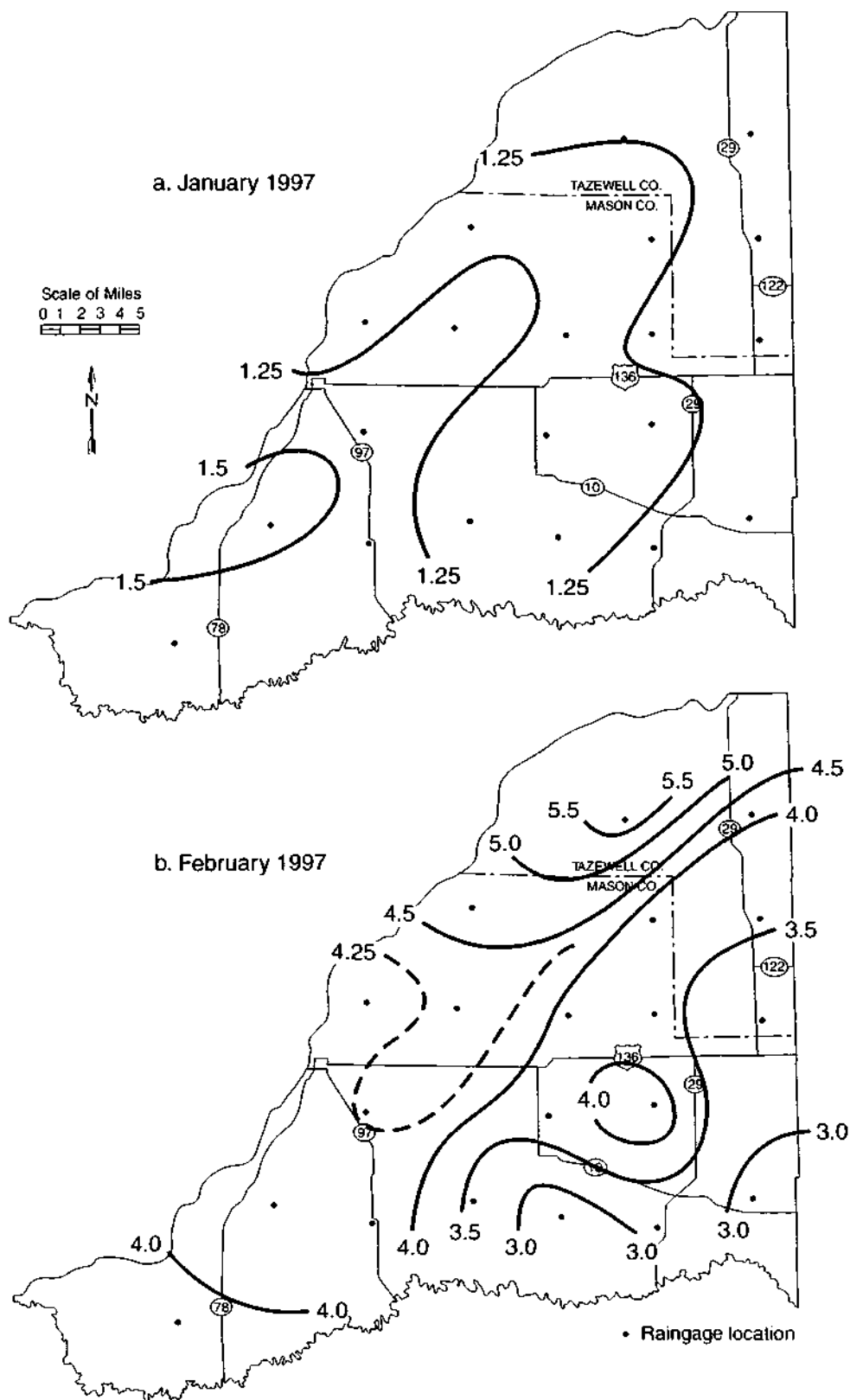


Figure 5. Precipitation pattern (inches) for a) January 1997, and b) February 1997

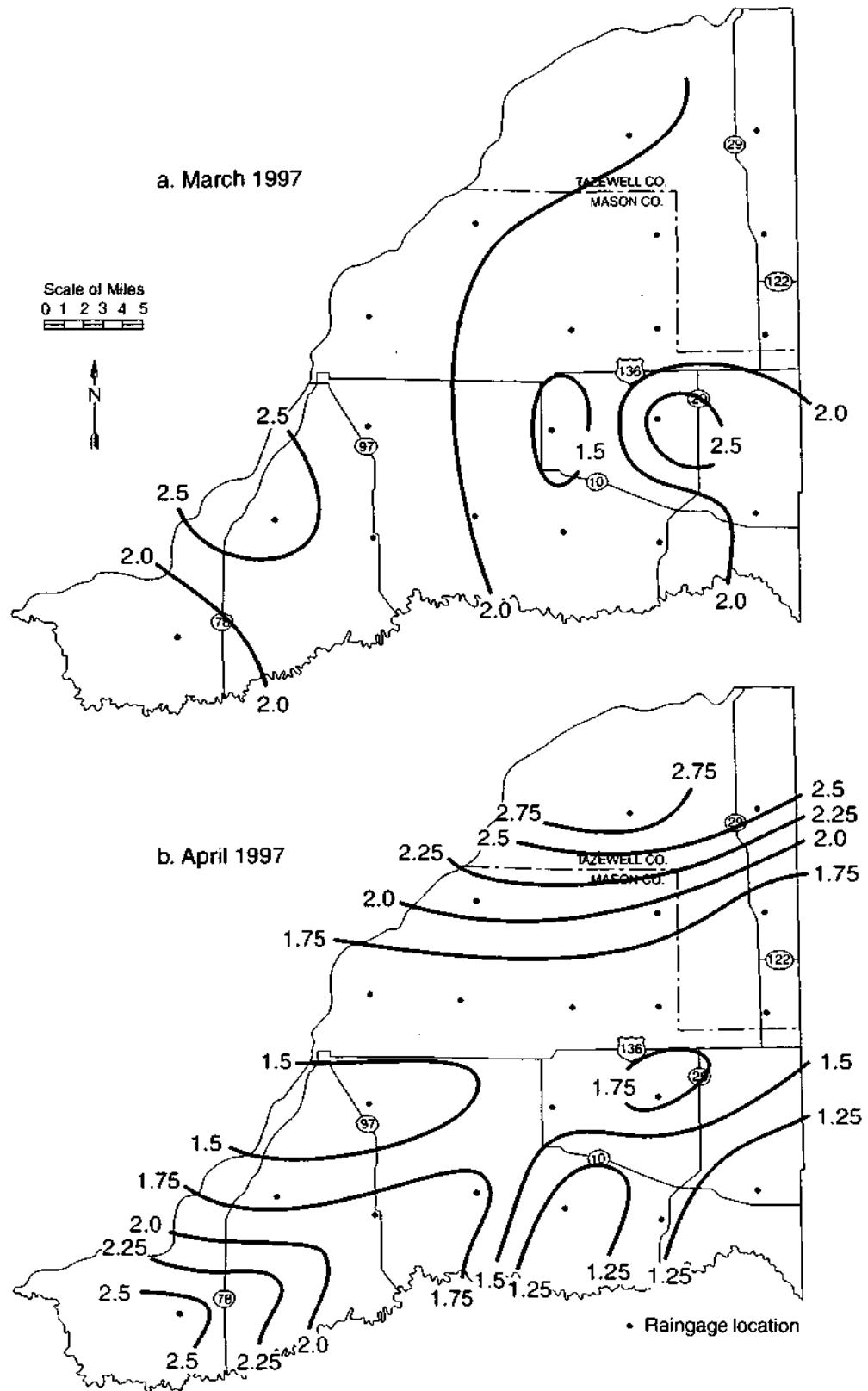


Figure 6. Precipitation pattern (inches) for a) March 1997, and b) April 1997

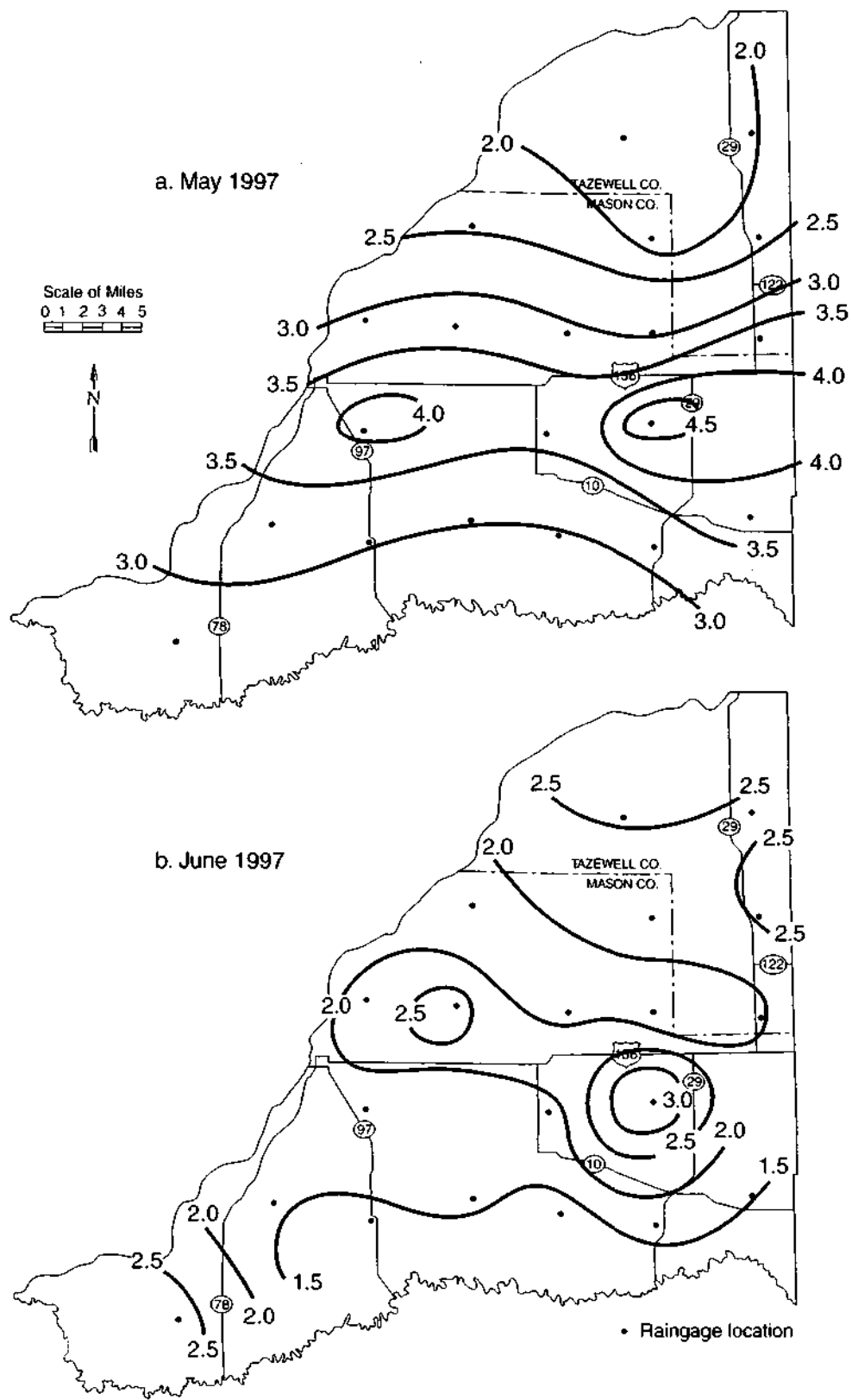


Figure 7. Precipitation pattern (inches) for a) May 1997, and b) June 1997

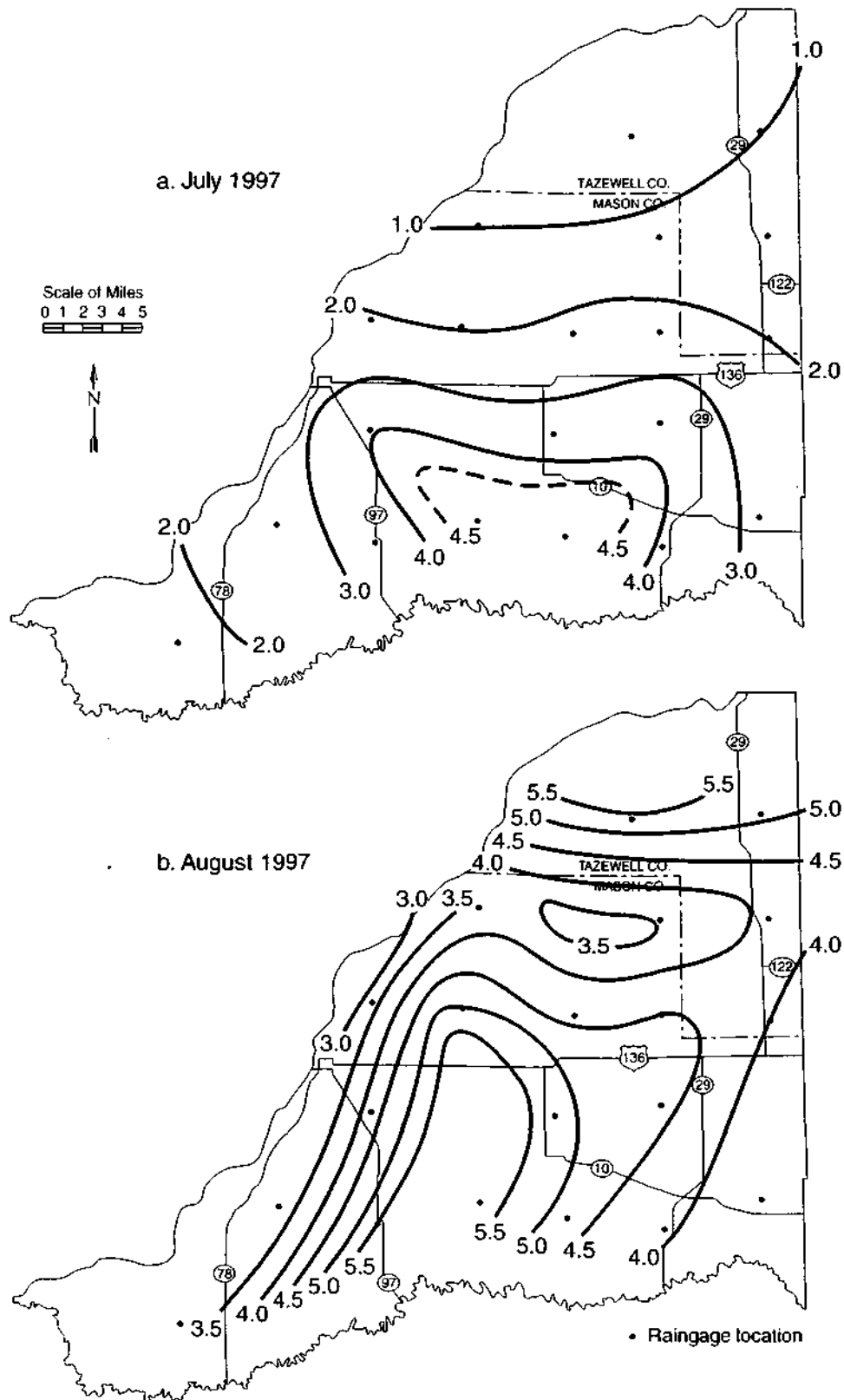


Figure 8. Precipitation pattern (inches) for a) July 1997, and b) August 1997

less than either the 1993 and 1994 summers. The number of rain days (32) was less than the number of rain days in 1993 (45) and 1995 (40). Rainfall came in approximately 35 events resulting in an individual rain event mean of 0.26 inches. The 1997 summer event average rainfall exceeds only the 1995 summer rain event rainfall (0.17 inches). The event average rainfall in the remaining summers was 0.42 inches in 1993, 0.30 inches in 1994, and 0.27 inches in 1996.

Spring 1997 was the driest of the five springs, resulting in the second fewest number of rain days and events. Only 1994 had fewer rain days and events during the spring months. The average amount of precipitation received per rain day and event was 0.24 and 0.20 inches, respectively.

Table 2. Average Number of Rain Days, Rain Events, Total Rainfall, Inches of Rain per Rain Day, and Inches of Rain per Rain Event for Each Month and Season for the 1992-1996 Period Compared to the 1996-1997 Observation Year

<i>Period</i>	<i>1992-1996 Average</i>					<i>1996-1997</i>				
	<i>Days</i>	<i>Events</i>	<i>Rainfall</i>	<i>In./Day</i>	<i>In./Event</i>	<i>Days</i>	<i>Events</i>	<i>Rainfall</i>	<i>In./Day</i>	<i>In./Event</i>
September	6.8	7.5	4.82	0.71	0.64	4.0	6.0	1.61	0.40	0.27
October	7.5	7.8	2.84	0.38	0.37	6.0	11.0	1.99	0.33	0.18
November	7.0	8.3	3.54	0.51	0.43	9.0	9.0	2.20	0.24	0.24
December	6.3	7.8	1.67	0.27	0.22	5.0	5.0	0.89	0.18	0.18
January	7.0	7.5	2.10	0.30	0.28	10.0	13.0	1.26	0.13	0.10
February	4.3	4.5	1.16	0.27	0.26	7.0	8.0	3.88	0.55	0.49
March	7.0	7.3	2.17	0.31	0.30	7.0	8.0	1.95	0.28	0.24
April	10.0	12.0	4.44	0.44	0.37	10.0	11.0	1.76	0.18	0.16
May	13.8	16.0	5.36	0.39	0.33	11.0	15.0	3.02	0.27	0.20
June	11.3	13.0	3.74	0.33	0.29	13.0	14.0	2.05	0.16	0.15
July	12.3	14.0	5.01	0.41	0.36	6.0	6.0	2.55	0.43	0.43
August	11.0	13.8	3.38	0.31	0.25	13.0	15.0	4.42	0.34	0.29
Autumn	21.3	23.5	11.19	0.53	0.48	19.0	26.0	5.80	0.31	0.22
Winter	17.5	19.8	4.92	0.28	0.25	22.0	26.0	6.03	0.27	0.23
Spring	30.8	35.3	11.96	0.39	0.34	28.0	34.0	6.74	0.24	0.20
Summer	34.5	40.8	12.14	0.35	0.30	32.0	35.0	9.02	0.28	0.26
Annual	104.0	119.3	40.22	0.39	0.34	101.0	121.0	27.58	0.27	0.23

The 1996-1997 winter season (December-February) had the most precipitation days and events of the five winters. Average precipitation per event was larger than the 1993-1994 and 1995-1996 winter events but smaller than the 1992-1993 and 1994-1995 winter events. The 1996-1997 winter was the second wettest of the five winters with a total precipitation of 6.03 inches, although an average precipitation of only 0.27 inches fell each rain day, the least of the five winters, but only slightly less than the four-year average (0.28 inches).

Autumn 1996 was the driest of the five years. An average of 5.80 inches of rain was received across the region during September, October, and November. This was 1.09 inches less than in 1995, 2.40 inches less than 1994, 11.32 inches less than in 1993, and 6.76 inches less than in 1992. There were 26 autumn rain events over 19 days, resulting in the least amount of rainfall per rain day, and rain event in the five years during the autumn season.

The plot of the network average precipitation time series (Figure 9) shows the monthly variation of rainfall. October has the smallest year-to-year precipitation range (1.34 inches) over the five observation years, while September has the largest range (10.07 inches). The network average annual rainfall for 1996-1997 was 27.58 inches, the second driest over the five-year period. The driest year was 1995-1996 (25.70 inches) and the wettest year was 1992-1993 (55.55 inches). The September 1992 to August 1993 year also had the widest month-to-month fluctuations in rainfall, reflecting the Great Flood of 1993 over the central and western Midwest. Monthly fluctuations last year (September 1996 to August 1997) were the smallest. The remaining years show a typical seasonal distribution of precipitation with the least precipitation occurring in winter and the most in spring and summer. The driest October, April, June, and July, and the wettest February occurred during the 1996-1997 observation year. The 1996-1997 year is the first year where monthly rainfall failed to exceed 5 inches in at least one month of the year, while only one month (December) received less than 1 inch of precipitation, compared to four months in the dry 1995-1996 year.

During 1996-1997 only two months (February and August) received rainfall greater than the 1992-1996 average (Figure 10). All other months were drier than the four-year average. More details of the monthly rainfall by year can be found in Appendix IV where graphs of monthly average precipitation for each of the 25 raingage sites during the five years are presented. The five raingages removed from the network show only three years of data.

A total of 598 network storm periods have occurred during the five-year observation period, 148 in Year One, 102 in Year Two, 129 in Year Three, 98 in Year Four, and 121 in Year Five. Appendix V documents each storm period with date and hour of the start of the storm period, storm period duration, number of stations receiving precipitation during the storm period, network average rainfall, storm average precipitation, maximum precipitation received during the storm period, the station (gage) where the maximum occurred, and storm recurrence frequency of the maximum observed precipitation. The network average rainfall is the arithmetic mean of the rain received at all 20 or 25 stations, while the storm average is the arithmetic mean of the rain received at stations reporting rainfall during the storm period. The storm recurrence frequency is the statistical probability of the recurrence of a storm with the reported precipitation (i.e., a 10-year storm would be expected to occur on average only once every ten years at a given station). Recurrence frequencies are recorded for the total storm period for the area. Also included in Appendix V is a table showing each storm and the rainfall received at each of the 20 or 25 stations during that storm.

SUMMARY

A bar chart titled 'Precipitation (inches)' on the y-axis and 'Month' on the x-axis. The y-axis scale goes from 0 to 12 in increments of 2. The x-axis labels are S, J93, M, S, J94, M, S, J95, M, S, J96, M, S, J97, M, representing months from September 1993 to March 1998. The chart shows monthly precipitation with notable peaks in late 1993 and early 1995.

Month	Precipitation (inches)
S	4.1
	2.0
	6.3
	2.7
J93	3.5
	1.6
	3.8
	5.2
M	2.5
	6.2
	11.0
	6.0
S	11.5
	2.9
	2.5
J94	1.0
	0.8
	1.6
	0.9
M	4.9
	3.0
	3.1
	3.3
	3.6
S	1.4
	3.3
	3.3
J95	2.2
	2.8
	0.6
	0.5
M	4.8
	10.3
	2.5
	2.6
S	2.8
	2.0
	3.0
J96	1.8
	0.5
	0.8
	0.8
M	2.0
	5.3
	2.5
	2.8
	2.7
S	1.0
	1.6
	2.1
J97	0.8
	1.2
	3.8
	1.9
M	2.9
	1.8
	2.0
	4.3

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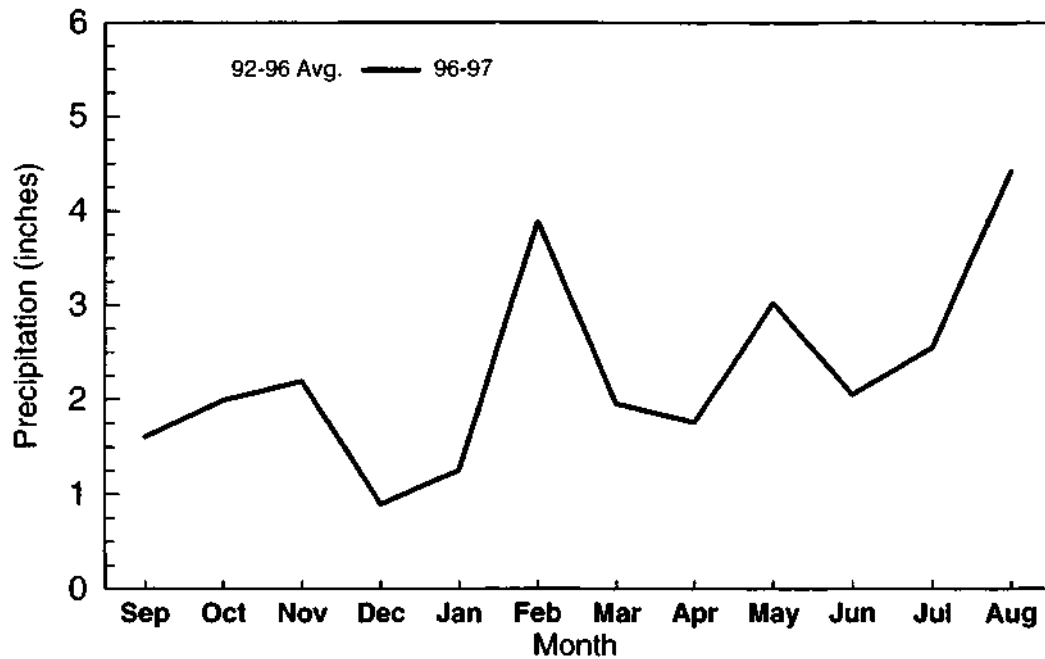


Figure 10. 1996-1997 monthly network average precipitation compared to the four-year network monthly average

These data and statistics, in combination with ground-water information now being collected in the area on a routine basis, should enhance the ability of the IVWA to accurately and efficiently manage the region's underground water resources.

ACKNOWLEDGMENTS

This work was contracted by the IVWA under contract "Imperial Valley 223," with partial support from the ISWS general revenue fund. Mr. Morris Bell, chairman of the IVWA, and his board administer the project. Doug Ward established the digitizing system, including software; Linda Hascall drafted the figures for this report; and Eva Kingston edited the report. Mike Snider, Paul Nelson and Robert Ransom made the field portion of this project run smoothly, and their efforts are greatly appreciated. The ISWS and IVWA take this opportunity to thank all of the local Mason/Tazewell County observers, past and present, for their diligence in making this project a success. The views expressed herein are those of the authors and do not necessarily reflect the views of the sponsor.

REFERENCES

- Hollinger, S. E., 1997: *Continued Operation of a Raingage Network for the Imperial Valley Water Authority Year Four: September 1995-August 1996*. Illinois State Water Survey Contract Report 615, 60p.
- Hollinger, S. E., and R. A. Peppier, 1996: *Continued Operation of a Raingage Network for the Imperial Valley Water Authority Year Three: September 1994 - August 1995*. Illinois State Water Survey Contract Report 597, 54p.
- Huff, F. A., 1970: Sampling errors in measurement of mean precipitation. *Journal of Applied Meteorology*, 9, 35-44.
- Huff, F. A., and J. R. Angel, 1989: *Frequency Distributions and Hydroclimatic Characteristics of Heavy Rainstorms in Illinois*. Illinois State Water Survey Bulletin 70, 177p.
- Peppier, R. A., and S. E. Hollinger; 1994: *Installation and Operation of a Raingage Network for the Imperial Valley Water Authority Year One: September 1992 - August 1993*. Illinois State Water Survey Contract Report 575, 59p.
- Peppier, R. A., and S. E. Hollinger, 1995: *Continued Operation of a Raingage Network for the Imperial Valley Water Authority Year Two: September 1993 - August 1994*. Illinois State Water Survey Contract Report 583, 40p.

APPENDIX I: RAINGAGE SITE DESCRIPTIONS

This appendix contains site descriptions of each raingage site in the IVWA network as of August 31, 1996. Sites that have been relocated since the network was established in August 1992 are so noted in the "Placement" portion of their site description. Sites with shaded descriptions have been removed from the network.

SITE DESCRIPTION		
Site Number: 1		
County: Tazewell	Latitude: 40° 28' 3"	Longitude: 89° 50' 9"
Property Owner: Melvin Fornoff		
Address: 10200 Fornoff Road, Manito, IL 61546		
Telephone: 309-968-6653		
Permission Date: 8-10-92		
Installation Date: 8-25-92		
Gage Mfrs. No.: 4695	Gage ID No.: SWS 5068	
Placement: Near apple/pear trees, northeast of a garage. Property on east side of 450 E in Tazewell County, north of 1000 N. Large dog. SWS services. Gage 15 meters northwest of latitude/longitude reading. Station removed from the network in September 1995.		

SITE DESCRIPTION		
Site Number: 2		
County: Tazewell	Latitude: 40° 28' 42"	Longitude: 89° 45' 54"
Property Owner: Ken Becker		
Address: 8479 Townline Road, Manito, IL 61546		
Telephone: 309-545-2207		
Permission Date: 8-15-92		
Installation Date: 8-25-92		
Gage Mfrs. No.: 4723	Gage ID No.: SWS 5030	
Placement: In back yard (grass) near garbage burner. Property on south side of 1100 N in Tazewell County, west of 900 E. SWS services. Gage 2 meters west of latitude/longitude reading.		

SITE DESCRIPTION		
Site Number: 3		
County: Tazewell	Latitude: 40° 28' 56"	Longitude: 89° 37' 33"
Property Owner: Lonn Schleder		
Address: RR #3, 11177 S. 14th Street, Pekin, IL 61554		
Telephone: 309-348-2447		
Permission Date: 8-10-92		
Installation Date: 8-25-92		
Gage Mfrs. No.: 1463	Gage ID No.: SWS 3693	
<p>Placement: Moved 5-13-94 to a position about 60 meters north-northeast of original position, which was in a back pasture along a wire fence between a white aluminum shed and a large tree. Present position is between a garage and another shed near a well. Property on northwest corner of the intersection of 1600 E and 1100 N. SWS services. Gage 50 meters north-northwest of latitude/longitude reading.</p>		

SITE DESCRIPTION		
Site Number: 4		
County: Mason	Latitude: 40° 24' 29"	Longitude: 89° 54' 41"
Property Owner: Ellis Popcorn (Maureen Hanks)		
Address: R.R. #1, Topeka, IL 61567		
Telephone: 309-535-3840		
Permission Date: 8-10-92		
Installation Date: 8-25-92		
Gage Mfrs. No.: 7382	Gage ID No.: SWS 6573	
<p>Placement: South of large white office building, between two trees in a grassy area. Property on east side of 2340 E in Mason County, northeast of Goofy Ridge. Mrs. Hanks services. Gage 10 meters south-southwest of latitude/longitude reading.</p>		

SITE DESCRIPTION		
Site Number: 5		
County: Mason	Latitude: 40° 24' 29"	Longitude: 89° 50' 19"
Property Owner: Joseph Meyer		
Address: R.R. # 1, Box 175, Topeka, IL 61567		
Telephone: 309-968-6378		
Permission Date: 8-10-92		
Installation Date: 8-25-92		
Gage Mfrs. No.: 5985	Gage ID No.: CDA 000130	
Placement: Next to stone drive in a pasture in front of house. Property on west side of 2750 E in Mason County, south of 2500 N. SWS services. Gage 3 meters east latitude/longitude reading. Station removed from network in September 1995.		

SITE DESCRIPTION		
Site Number: 6		
County: Mason	Latitude: 40° 24' 12"	Longitude: 89° 44' 6"
Property Owner: c/o Wes Hilst		
Address: R.R. #3, Box 116, Manito, IL 61546		
Telephone: 309-968-7043		
Permission Date: 8-10-92		
Installation Date: 8-25-92		
Gage Mfrs. No.: 5295	Gage ID No.: SWS 5309	
Placement: Next to old farm machinery just north of garden and northeast of green shed. Property on west side of 3300 E in Mason County, just south of 2400 N. SWS services. Gage 18 meters south of latitude/longitude reading.		

SITE DESCRIPTION		
Site Number: 7		
County: Tazewell	Latitude: 40° 24' 24"	Longitude: 89° 37' 29"
Property Owner: David Van Orman		
Address: 5801 Warner Road, Green Valley, IL 61534		
Telephone: 309-352-5673		
Permission Date: 8-10-92		
Installation Date: 8-25-92		
Gage Mfrs. No.: 5935	Gage ID No.: --	
Placement: Moved in May 1993 to a position south of a barn with a green roof, near edge of field. Original position was 30 meters to the northeast, north of the same barn. Both positions are northwest of the house. Property located just east of Green Valley on south side of 600 N in Tazewell County, just west of 1600 E. SWS services. Gage 17 meters west-northwest of latitude/longitude reading.		

SITE DESCRIPTION		
Site Number: 8		
County: Mason	Latitude: 40° 20' 32"	Longitude: 90° 1'8"
Property Owner: Gary Blakely		
Address: 18012 E. County Road N, Havana, IL 62644		
Telephone: 309-543-4949		
Permission Date: 8-10-92		
Installation Date: 8-24-92		
Gage Mfrs. No.: 2000	Gage ID No.: US 148085	
Placement: East-southeast of house near a small tree. Property located on north side of 1950 N in Mason County west of 1900 E. Mr. Blakely services. Gage 36 meters east-northeast of latitude/longitude reading.		

SITE DESCRIPTION		
Site Number: 9		
County: Mason	Latitude: 40° 19'41"	Longitude: 89° 55' 55
Property Owner: John Crum		
Address: Box 19, Topeka, IL 61567		
Telephone: 309-535-2080		
Permission Date: 5-14-93		
Installation Date: 5-14-93		
Gage Mfrs. No.: 5986	Gage ID No.: CDA 000132	
<p>Placement: Located in a sparse apple orchard about 70 meters west of house. Original position from 8-24-92 to 5-14-93 was at R.R. #1, Box 6, Topeka, about one mile north-northeast of present position at a farmstead, between a tank and a light pole along a front drive. Present location is on Pear Street in the far southwestern portion of Topeka in Mason County. From 2280 E turn west on 5th Street until you reach Pear Street. Mr. Crum services. Gage 75 meters west-northwest of latitude/longitude reading.</p>		
SITE DESCRIPTION		
Site Number: 10		
County: Mason	Latitude: 40° 19'58"	Longitude: 89° 48'53"
Property Owner: Paul Meeker		
Address: RR # 1, Box 31, Forest City, IL 61532		
Telephone: 309-597-2163		
Permission Date: 8-10-92		
Installation Date: 8-24-92		
Gage Mfrs. No.: 4679	Gage ID No.: SWS 5100	
<p>Placement: West of hedge row on southwest edge of home property. Property is on north side of 1900 N in Mason County, east of 2800 E, and the gage is about 3 meters north of 1900 E. SWS services. Gage 5 meters northeast of latitude/longitude reading.</p>		

SITE DESCRIPTION		
Site Number: 11		
County: Mason	Latitude: 40° 20' 2"	Longitude: 89° 44' 4"
Property Owner: Louis Moehring		
Address: 32972 E. County Road 1900 N, Manito, IL 61546		
Telephone: 217-482-3320		
Permission Date: 8-10-92		
Installation Date: 8-24-92		
Gage Mfrs. No.: 3362	Gage ID No.: SWS 4450	
Placement: North side (back of) house along a walk. Property is on northwest corner of intersection of 1900 N and 3300 E in Mason County. Mr. Moehring services. Gage 12 meters southwest of latitude/longitude reading.		

SITE DESCRIPTION		
Site Number: 12		
County: Tazewell	Latitude: 40° 20' 16"	Longitude: 89° 38'26"
Property Owner: Harold Deiss		
Address: 1327 Route 29, San Jose, IL 62682		
Telephone: 309-247-3535		
Permission Date: 8-10-92		
Installation Date: 8-24-92		
Gage Mfrs. No.: 3346	Gage ID No.: SWS 4439	
Placement: East side of Route 29 (1500 E) in Tazewell County in a grassy area southwest of a red shed. Deiss house is 1/4 mile north. Just north of Day Ditch. SWS services. Gage 2 meters south of latitude/longitude reading.		

SITE DESCRIPTION		
Site Number: 13		
County: Mason	Latitude: 40° 15'43"	Longitude: 90° 0'48"
Property Owner: Don Hahn		
Address: R.R. # 1, Box 386, Havana, IL 62644		
Telephone: 309-543-4660		
Permission Date: 8-11-92		
Installation Date: 8-25-92		
Gage Mfrs. No.: 5939	Gage ID No.: --	
Placement: Left side of front entrance drive near a short fence. Property on south side of the diagonal 1450 N, east of Route 92. Mr. Hahn services. Gage 3 meters north-northeast of latitude/longitude reading.		

SITE DESCRIPTION		
Site Number: 14		
County: Mason	Latitude: 40° 15' 52"	Longitude: 89° 56' 33"
Property Owner: Wayne Patterson (650 E. Taintor, Rd., Springfield, IL 62702-1755)		
Address: R.R. #1, Box 220, Easton, IL 62633		
Telephone: 309-543-4664		
Permission Date: 8-11-92		
Installation Date: 8-24-92		
Gage Mfrs. No.: 4678	Gage ID No.: SWS 5098	
Placement: In a small clearing north of house. Property located on east side of 2200 E in Mason County south of 1500 N. Correspondence address changed to that of Wayne Patterson on 3-26-94. SWS services. Gage 17 meters northwest of latitude/longitude reading. Station removed from network in September 1995.		

SITE DESCRIPTION		
Site Number: 15		
County: Mason	Latitude: 40° 15'27"	Longitude: 89° 50' 22"
Property Owner: c/o Joe Umbach		
Address: R.R. #1,Box 156, Easton, IL 62633		
Telephone: 309-562-7611		
Permission Date: 8-12-92		
Installation Date: 8-24-92		
Gage Mfrs. No.: 6462	Gage ID No.: CD A 000136	
Placement: Along right side of the house lane which extends north from 1410 N in Mason County between Route 10 and 2800 E. 1410 N runs from southwest to northeast along Central Ditch. SWS services. Gage 2 meters north-northeast of latitude/longitude reading.		

SITE DESCRIPTION		
Site Number: 16		
County: Mason	Latitude: 40° 16'5"	Longitude: 89° 44' 9"
Property Owner: Donald Osborn, Sr.		
Address: 32866 E. County Road 1450 N, Mason City, IL 62664		
Telephone: 217-482-5816		
Permission Date: 8-11-92		
Installation Date: 8-24-92		
Gage Mfrs. No.: 46595	Gage ID No.: SWS 5059	
Placement: Along right side of drive near pigpen and road (1450 N). Property located on north side of 1450 N just west of 3300 E. Mr. Osborn services. Gage 2 meters east of latitude/longitude reading.		

SITE DESCRIPTION		
Site Number: 17		
County: Mason	Latitude: 40° 16' 51"	Longitude: 89° 38' 25"
Property Owner: Larry Jennings		
Address: R.R. #1, Box 100, San Jose, IL 62682		
Telephone: 309-274-3781		
Permission Date: 8-11-92		
Installation Date: 8-24-92		
Gage Mfrs. No.: 5280	Gage ID No.: SWS 5317	
Placement: West of garage near back fence and animal petting area. Property located on 3800 E in Mason County just north of 1500 N. SWS services. Gage 34 meters west of latitude/longitude reading. Station removed from network in September 1995.		

SITE DESCRIPTION		
Site Number: 18		
County: Mason	Latitude: 40° 11' 32"	Longitude: 90° 6' 15"
Property Owner: Vernon Heye		
Address: R.R. #1, Bath, IL 62617		
Telephone: 309-546-2266		
Permission Date: 8-11-92		
Installation Date: 8-26-92		
Gage Mfrs. No.: 5278	Gage ID No.: SWS 5308	
Placement: East of white shed near field on east edge of home property. Property located on north side of 900 N in Mason County about 2 miles east of Bath. SWS services. Gage about 37 meters east-northeast of latitude/longitude reading.		

SITE DESCRIPTION		
Site Number: 19		
County: Mason	Latitude: 40° 11' 1"	Longitude: 90° 70' 19"
Property Owner: Charles W. Lane		
Address: R.R. #1, Box 51, Kilbourne, IL 62655		
Telephone: 309-538-4397		
Permission Date: 8-11-92		
Installation Date: 8-26-92		
Gage Mfrs. No.: 4718	Gage ID No.: SWS 5081	
Placement: Along a wire fence separating home property from pigpen, northwest of house. Property located on west side of Route 97 on southern end of a large curve between 900 N and 800 N. Mr. Lane services. Gage 14 meters northwest of latitude/longitude reading.		

SITE DESCRIPTION		
Site Number: 20		
County: Mason	Latitude: 40° 11'46"	Longitude: 89° 54' 56"
Property Owner: Wanda Krause		
Address: R.R. #1, Box 109, Easton, IL 62633		
Telephone: 309-562-7528		
Permission Date: 8-11-92		
Installation Date: 8-26-92		
Gage Mfrs. No.: 3771	Gage ID No.: US 148830	
Placement: In yard of Jon Krause just north of the east-west lane and to the west of the lane to the Krause home. The raingage was moved to this position in early 1995. The previous location was on the east side of 2400 E in Mason County near Jon Krause mailbox in a strawberry patch along the same lane about 250 meters to the west on the Wanda Krause property. SWS services. Gage 150 meters east of latitude/longitude reading.		

SITE DESCRIPTION		
Site Number: 21		
County: Mason	Latitude: 40° 11' 10"	Longitude: 89° 49'39"
Property Owner: John Walters		
Address: 28030 E. County Road 850 N, Mason City, IL 62664		
Telephone: 309-562-7527		
Permission Date: 8-11-92		
Installation Date: 8-26-92		
Gage Mfrs. No.: 6294	Gage ID No.: CDA 00013A	
Placement: East of the house and driveway and southeast of a shed. Property located on a hill on the northeast corner of the intersection of 2800 E and 850 N in Mason County. Position previous to 5-20-94 was between a windmill and a bush about 25 meters west of present position. Mrs. Walters services. Gage 25 meters east of latitude/longitude reading.		

SITE DESCRIPTION		
Site Number: 22		
County: Mason	Latitude: 40° 10'46"	Longitude: 89° 44' 28"
Property Owner: Joe Swaar		
Address: 32706 E. County Road 800 N, Mason City, IL 62664		
Telephone: 217-482-5571		
Permission Date: 8-11-92		
Installation Date: 8-26-92		
Gage Mfrs. No.: 4708	Gage ID No.: SWS 5021	
Placement: On a concrete slab with two two-by-fours attached to the base of the gage, west of the house and lane on a ridge. Property is located on north side of 800 N in Mason County west of Route 29 and southwest of Mason City. Mr. Swaar services. Gage 25 meters west of latitude/longitude reading.		

SITE DESCRIPTION		
Site Number: 23		
County: Mason	Latitude: 40° 12'0"	Longitude: 89° 38'28"
Property Owner: Dale C. Fancher		
Address: 9482 N. County Road 3800 E, Mason City, IL 62664-7209		
Telephone: 217-482-3506		
Permission Date: 8-11-92		
Installation Date: 8-26-92		
Gage Mfrs. No.: 3773	Gage ID No.: US 148832	
<p>Placement: On the west edge of a garden located north of a wood shop and the house. Property located on the west side of 3800 E in Mason County about a half mile north of Route 10, east of Mason City. Mr. Fancher services. Gage 30 meters north-northwest of latitude/longitude reading.</p>		
SITE DESCRIPTION		
Site Number: 24		
County: Mason	Latitude: 40° 6' 26"	Longitude: 90° 11' 58"
Property Owner: Norman L. Fletcher		
Address: R.R. # 1, Box 147, Bath, IL 62664		
Telephone: 309-546-2677		
Permission Date: 8-11-92		
Installation Date: 8-26-92		
Gage Mfrs. No.: —	Gage ID No.: -	
<p>Placement: North of a garage near a grapevine, northeast of the house. Property located on the east side of 800 E in Mason County west of Route 78, just north of 300 N. Mrs. Fletcher services. Gage 32 meters northeast of latitude/longitude reading.</p>		

SITE DESCRIPTION		
Site Number: 25		
County: Mason	Latitude: 40° 6' 14"	Longitude: 90° 8' 0"
Property Owner: Rocky Adkins		
Address: R.R. #2, Box 16, Chandlerville, IL 62627		
Telephone: 217-458-2587		
Permission Date: 8-11-92		
Installation Date: 8-26-92		
Gage Mfrs. No.: 5947	Gage ID No.: --	
<p>Placement: Next to two tanks and a sign in a small grassy area surrounded by truck access. Property located at Adkins Farms on south side of 300 N (east of Route 78) in Mason County. SWS services. Gage 2 meters south of latitude/longitudereading. Station removed from network in September 1995.</p>		

APPENDIX II: INSTRUCTIONS FOR RAINGAGE TECHNICIANS

A. Use Central Standard Time:

From October through March, Illinois is in the Central Standard Time zone, so the time your watch shows is the time to use when you write the time and date on the chart. From April through October, subtract one hour from what your watch says, since during the warm season Illinois is in the Central Daylight Time (Eastern Standard Time) zone.

B. Order of Servicing:

1) Old Chart

- a) Unlock and open (slide up) door on the side of the instrument case and then lock door in place to prevent it from falling.
- b) Depress the bucket platform casting to mark the OFF time position on the chart (a vertical trace will be written by the pen).
- c) Note the time on your watch and move the pen point and arm away from the chart by pushing out on the pen bracket.
- d) Lift up on the drum cylinder that contains the chart in order to disengage it from the chart drive and remove it out the door.
- e) Remove the chart from the drum and write the OFF date and time on the chart on the red line at the right end of the chart.

2) Bucket

- a) Remove the collector from the top of the gage by rotating it clockwise to disengage the tongue-and-groove assembly and set it down.
- b) Carefully lift the bucket off of the weighing platform if there is water in it and dump the water on the ground.
- c) Reposition the empty bucket on the platform.
- d) Reinstall the collector by setting it on top of the raingage case and turning the collector counterclockwise until the tongue-and-groove assembly meshes.
- e) During wintertime operation when a quart of antifreeze is in the bucket to prevent freezing, do not dump the bucket contents. We will monitor the increase in liquid in the bucket at the Water Survey (via the chart trace) and come to dispose of the liquid when it approaches the top of the bucket.
- f) In the winter, stir the contents of the bucket to keep the antifreeze mixed with the water.

3) New Chart

- a) Copy the OFF time from the old chart to the ON time on the new chart (another red line on end of the chart) and write your site number on the chart.
- b) Clip the new chart to the drum cylinder, making sure the crease at the right end of the chart is sharp and the chart is tight on the cylinder.
- c) Wind the chart drive lever until you can't anymore so that the chart drive will be ready to run again for another eight days.
- d) Reinstall the chart cylinder onto the chart drive, making sure the chart cylinder and drive gears mesh. Simply push down on the cylinder and wiggle it a little. You should feel some resistance if done correctly.
- e) Move the pen arm and point over to the chart cylinder with the pen bracket and rotate the cylinder counterclockwise until the pen point coincides with the correct ON time position.
- f) Let the pen point rest right on the chart and depress the platform casting again to make a small vertical line denoting the ON time position.
- g) When you are sure that everything is in order, carefully unlock the door, push the door down, and lock it into place for another week.

4) Problems

- a) If you notice anything unusual about the gage or the chart drive operation, write a note on the upper right corner of the old chart.
- b) If you think the problem requires immediate attention, call Robert Scott collect at 217-333-4966 (day) to relay the information to him. Situations worthy of immediate attention include confusion over how to perform the operation described above, premature chart-drive stoppage, or unauthorized tampering with the gage. Immediate repairs will be scheduled if necessary.
- c) Once you become experienced with this operation, it will take you less than five minutes to do it. Don't let the above instructions scare you - this operation is actually easier to perform than describe!

5) Mail Old Chart

- a) Carefully fold the old chart and place it in one of the postage-paid envelopes provided.
- b) Mail the chart to the State Water Survey.

C. Change in Site Status:

If at any time you decide that you no longer want the gage on your property or would rather that we service it, please contact Water Survey staff immediately so that they can make new arrangements. It is important to try to keep the sites in the same locations during the course of this project since rainfall generally varies greatly over short distances.

We greatly appreciate your cooperation for this project.

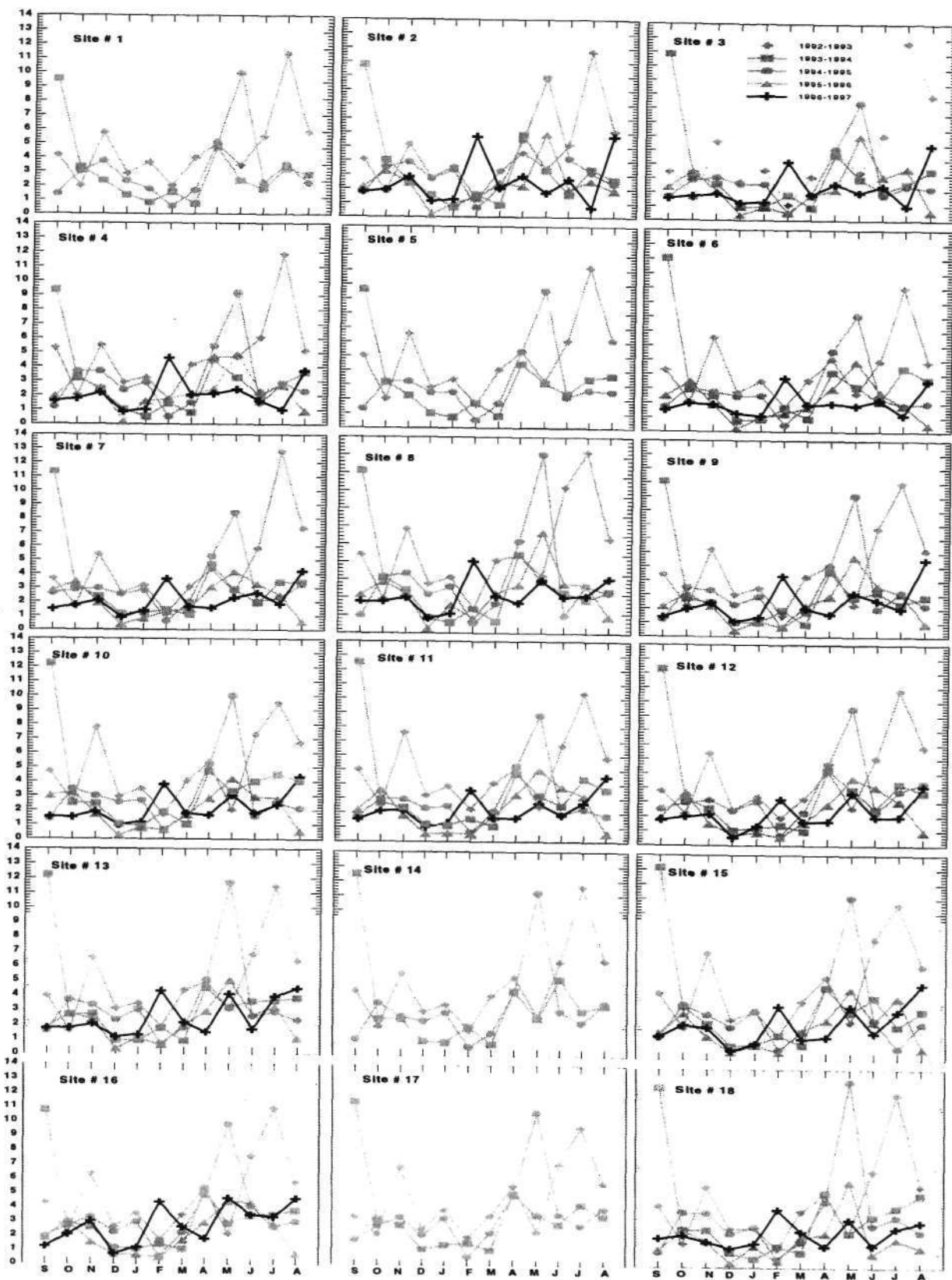
APPENDIX III: DOCUMENTATION OF RAINGAGE MAINTENANCE

This appendix documents major maintenance work carried out at sites in the network from September 1, 1996 through August 31, 1997. All gages were cleaned and lubricated and their calibration checked on October 2 -3, 1996. Each raingage was releveled and new pen points and chart drives were installed at various times during the year. None of these activities are listed below. There were no major maintenance activities during the fifth network year.

APPENDIX IV: MONTHLY PRECIPITATION VARIABILITY AT EACH SITE

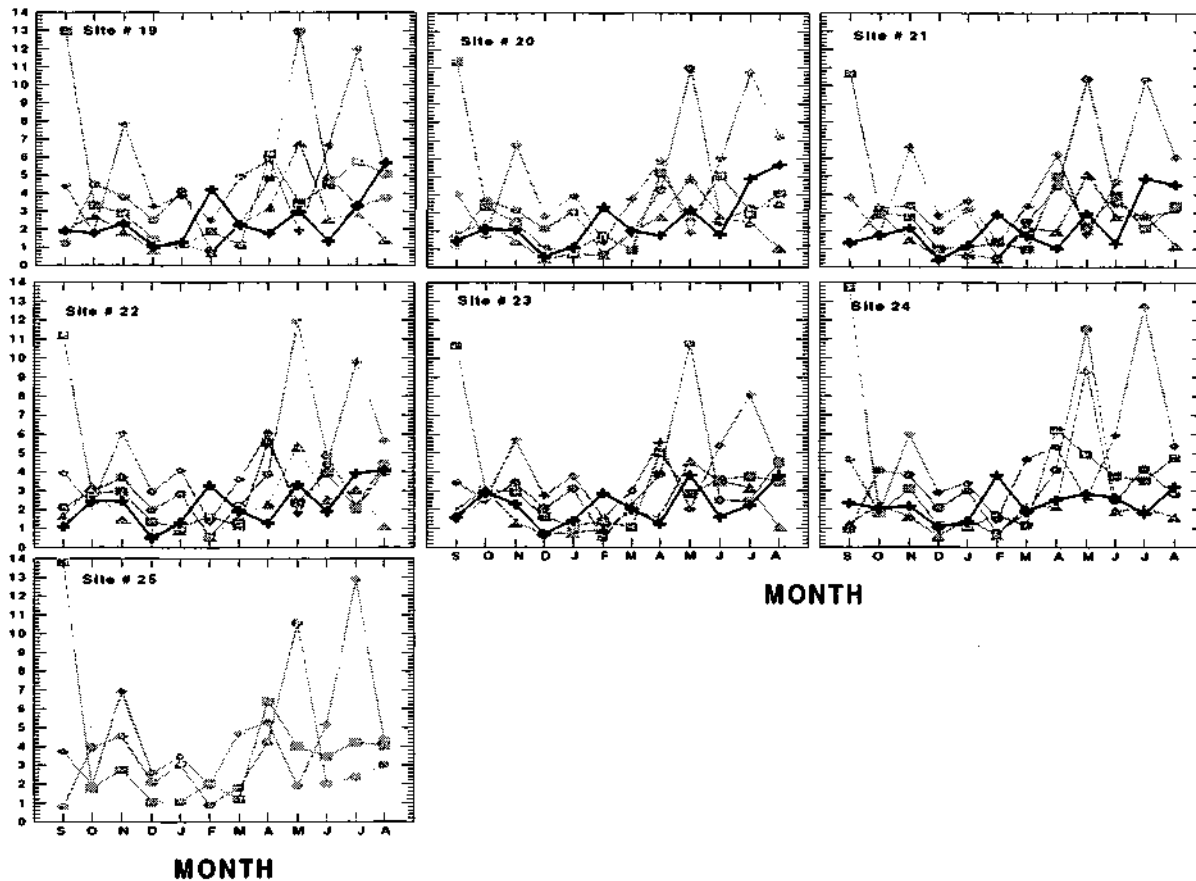
This appendix contains graphs of the monthly variability of precipitation amounts at each site in the IVWA Network. Each graph plots the monthly average precipitation (in inches) for a site for each month during the observation year (September through August of the following year). Data include the monthly totals for the 1992-1993, 1993-1994, 1994-1995, 1995-1996, and 1996-1997 observation years. Table 1 contains the actual 1996-1997 monthly amounts. The 1992-1993 totals can be found in Peppier and Hollinger (1994), the 1993-1994 totals in Peppier and Hollinger (1995), the 1994-1995 totals in Hollinger and Peppier (1996), and the 1995-1996 totals in Hollinger (1997).

PRECIPITATION, Inches



MONTH

PRECIPITATION, inches



APPENDIX V: DOCUMENTATION OF HEAVY STORM AMOUNTS

This appendix documents all storm period amounts, start time, duration, and notes those that exceeded an annual event (one-year recurrence interval) during the period September 1, 1992, through August 31, 1996. Individual storm durations of one hour to ten days were considered. The rainfall amounts for a one-year recurrence interval and these storm durations for west-central Illinois are given below (Huff and Angel, 1989):

<i>Storm Duration</i>	<i>Rainfall (inches) for Given Recurrence Interval</i>						
	<i>1-Yr</i>	<i>2-Yr</i>	<i>5-Yr</i>	<i>10-Yr</i>	<i>25-Yr</i>	<i>50-Yr</i>	<i>100-Yr</i>
1 hour	1.18	1.42	1.77	2.09	2.50	2.86	3.25
2 hours	1.48	1.78	2.22	2.62	3.14	3.59	4.08
3 hours	1.61	1.93	2.41	2.85	3.41	3.89	4.43
6 hours	1.89	2.26	2.82	3.33	3.99	4.56	5.19
12 hours	2.17	2.62	3.27	3.87	4.63	5.29	6.02
18 hours	2.28	2.75	3.46	4.09	4.90	5.59	6.37
24 hours	2.52	3.02	3.76	4.45	5.32	6.08	6.92
48 hours	2.81	3.38	4.19	4.86	5.78	6.62	7.51
72 hours	3.05	3.70	4.55	5.26	6.15	7.25	8.16
5 days	3.48	4.17	5.11	5.84	6.96	7.98	9.21
10 days	4.29	5.12	6.27	7.10	8.19	9.10	10.18

To determine the return frequency of any storm in Table V-1 or V-2, obtain the storm duration from the tables, then look in the left-hand column of the table above and locate the storm duration line that equals or just exceeds the storm duration in Table V-1 or V-2. If the rainfall for the event in Table V-1 or V-2 exceeds any of the amounts in the table above, obtain the return frequency by looking at the heading of the most right-hand column that the rainfall amount exceeds. For example: In Table V-2, storm number 20 has a duration of 38 hours. This storm duration falls between the 24- and 48-hour storm duration in the table above. Use the 48-hour storm duration line. In Table V-2 station 10 recorded rainfall equal to 3.21 inches, and station 11 equal to 3.39 inches. Therefore, station 10 exceeded the 1-year return frequency amount (2.81 inches) for a 48-hour storm, and station 11 exceeded the 2-year return frequency amount (3.38 inches) for a 48-hour storm.

The following table documents individual storm period start time (hour), duration (in hours), number of gages receiving precipitation during each storm, average precipitation over the network of 25 gages, average precipitation at the gages receiving precipitation during the event, maximum precipitation at any gage during the storm, and the location of the gage. The last column in the table indicates whether a particular storm, at the station with the maximum rainfall, exceeded events greater than an annual event (1-year to 100-year recurrence intervals considered). Only those events with maximum precipitation greater than that expected once a year are indicated. A storm recurrence frequency of 50 years means that a storm this size would be expected once every 50 years. Storm amounts are in inches.

Table V-1. Documentation of Storm Amounts

<i>Storm number</i>	<i>Storm date</i>	<i>Start time</i>	<i>Storm duration</i>	<i>Number gages</i>	<i>Network avg.</i>	<i>Storm avg.</i>	<i>Network max.</i>	<i>Gage with max.</i>	<i>Storm recurrence frequency</i>
September 1992									
1	1	0900	8	25	0.45	0.45	1.07	11	
2	2	0300	11	25	0.23	0.23	0.38	4	
3	2	2100	3	13	0.06	0.11	0.28	12	
4	7	2100	7	25	0.74	0.74	1.83	24	
5	9	0300	20	25	1.34	1.34	1.89	14	
6	14	1400	2	7	0.03	0.11	0.25	5	
7	18	0600	6	23	0.05	0.05	0.14	25	
8	18	1800	1	2	0.00	0.06	0.09	24	
9	20	0800	24	25	1.08	1.08	1.42	5	
10	25	2200	24	25	0.23	0.23	0.38	19	
October 1992									
11	8	0300	37	25	0.34	0.34	0.50	10	
12	9	2400	8	21	0.07	0.08	0.17	4	
13	10	1600	3	16	0.04	0.07	0.20	11	
14	14	2300	11	25	0.85	0.85	1.25	11	
15	15	2000	3	18	0.04	0.05	0.16	23	
16	19	2200	6	25	0.18	0.18	0.43	24	
17	28	1900	4	16	0.02	0.04	0.07	14	
18	29	0400	6	11	0.03	0.07	0.10	1	
19	29	1800	19	19	0.08	0.11	0.29	24	
20	31	1600	38	25	2.18	2.18	3.39	11	2-Yr, 48-Hr
November 1992									
21	3	0900	14	25	0.63	0.63	0.81	22	
22	8	2300	12	25	0.23	0.23	0.33	1	
23	9	1900	16	25	0.71	0.71	1.02	19	
24	10	1700	15	25	0.15	0.15	0.30	21	
25	11	1700	23	25	0.58	0.58	0.79	3	
26	17	1900	3	2	0.00	0.03	0.03	24	
27	18	0200	6	2	0.01	0.09	0.10	24	
28	18	1500	18	25	0.52	0.52	0.84	19	
29	19	2400	12	25	0.19	0.19	0.34	1	
30	20	1600	11	25	0.46	0.46	0.66	24	
31	21	0400	25	25	0.65	0.65	0.89	16	
32	25	0300	20	25	0.38	0.38	0.52	1	
33	30	1500	6	7	0.01	0.04	0.06	8	
December 1992									
34	3	0700	1	2	0.00	0.04	0.04	22	
35	9	1200	25	25	0.34	0.34	0.44	11	
36	14	0900	3	1	0.00	0.06	0.06	20	
37	14	2100	24	25	1.52	1.52	1.98	19	

Table V-1. (Continued)

<i>Storm number</i>	<i>Storm date</i>	<i>Start time</i>	<i>Storm duration</i>	<i>Number gages</i>	<i>Network avg.</i>	<i>Storm avg.</i>	<i>Network max.</i>	<i>Gage with max.</i>	<i>Storm recurrence frequency</i>
December 1992 (Cont.)									
38	19	0500	2	1	0.00	0.04	0.04	2	
39	19	1000	11	25	0.30	0.30	0.39	3	
40	20	0800	5	15	0.03	0.06	0.08	10	
41	28	1000	2	2	0.00	0.02	0.04	9	
42	28	2300	47	25	0.62	0.62	0.86	22	
January 1993									
43	1	2000	3	1	0.00	0.03	0.03	19	
44	2	0400	34	25	0.26	0.26	0.41	3	
45	3	2100	23	25	1.70	1.70	2.24	20	
46	6	1100	3	3	0.01	0.05	0.06	23	
47	7	1100	2	4	0.01	0.05	0.07	24	
48	7	2000	15	23	0.08	0.08	0.25	13	
49	9	1300	20	25	0.22	0.22	0.52	25	
50	12	0700	24	25	0.33	0.33	0.46	16	
51	20	0900	21	25	0.92	0.92	1.23	22	
February 1992									
52	11	0800	30	25	0.70	0.70	1.10	12	
53	12	1800	23	23	0.12	0.13	0.24	14	
54	15	1500	18	25	0.15	0.15	0.27	19	
55	20	1400	24	25	0.44	0.44	0.75	11	
56	25	0500	26	25	0.23	0.23	0.69	19	
March 1993									
57	2	0800	14	25	0.30	0.30	0.51	2	
58	3	0400	47	25	1.16	1.16	1.96	19	
59	5	1900	1	2	0.00	0.02	0.04	11	
60	7	1700	7	15	0.04	0.07	0.17	24	
61	9	2400	3	4	0.01	0.07	0.08	21	
62	15	2100	25	25	0.36	0.36	0.46	1	
63	19	0200	21	25	0.23	0.23	0.40	11	
64	20	0700	6	3	0.01	0.06	0.10	22	
65	21	1100	41	25	1.42	1.42	1.71	4	
66	30	2200	43	25	0.55	0.55	0.82	3	
April 1993									
67	1	2200	10	2	0.02	0.19	0.19	24	
68	5	2400	4	2	0.01	0.11	0.12	20	
69	7	1000	37	25	0.80	0.80	0.95	14	
70	12	1900	4	4	0.01	0.07	0.10	24	
71	13	1400	16	25	1.18	1.18	1.87	21	
72	14	1300	34	25	1.62	1.62	2.09	15	
73	16	1100	9	17	0.04	0.06	0.11	20	
74	19	0300	7	25	0.13	0.13	0.22	18	
75	19	1600	26	25	0.78	0.78	1.09	17	
76	24	2100	13	25	0.25	0.25	0.39	18	
77	28	2400	13	25	0.19	0.19	0.28	5	
May 1993									
78	1	0100	1	1	0.00	0.03	0.03	10	
79	1	1200	12	21	0.14	0.16	0.39	8	

Table V-1. (Continued)

<i>Storm number</i>	<i>Storm date</i>	<i>Start time</i>	<i>Storm duration</i>	<i>Number gages</i>	<i>Network avg.</i>	<i>Storm avg.</i>	<i>Network max.</i>	<i>Gage with max.</i>	<i>Storm recurrence frequency</i>
May 1993 (Cont.)									
80	2	1400	25	25	0.21	0.21	0.56	25	
81	4	0300	16	17	0.24	0.35	0.81	3	
82	5	0700	1	1	0.00	0.03	0.03	13	
83	5	1100	5	5	0.03	0.13	0.31	13	
84	6	0600	10	11	0.16	0.37	0.99	24	
85	10	1100	13	22	0.13	0.15	0.16	13	
86	11	1700	3	4	0.01	0.04	0.05	17	
87	12	1300	9	25	0.45	0.45	0.72	23	
88	18	1800	4	7	0.02	0.07	0.12	4	
89	21	1500	4	4	0.01	0.06	0.07	21	
90	22	1400	18	24	0.37	0.38	1.00	1	
91	23	1400	15	24	0.13	0.14	0.47	1	
92	28	2000	17	23	0.46	0.50	2.09	4	
93	30	0800	16	24	0.27	0.28	0.67	13	
June 1993									
94	1	2200	13	25	0.41	0.41	0.68	3	
95	3	2300	19	25	1.05	1.05	1.39	5	
96	7	2300	13	24	0.31	0.32	0.82	3	
97	8	1600	4	24	0.17	0.18	0.33	12	
98	15	0300	4	8	0.03	0.09	0.15	3	
99	17	2100	12	25	0.26	0.26	0.53	20	
100	18	1500	18	20	0.19	0.23	0.68	24	
101	19	1400	9	25	0.48	0.48	1.19	19	
102	24	2100	13	25	1.34	1.34	2.09	13	
103	28	0700	9	19	0.39	0.52	1.57	8	
104	28	2400	4	6	0.06	0.24	0.87	9	
105	30	0100	8	25	1.52	1.52	3.29	16	5-Yr, 12-Hr
106	30	2300	14	25	1.25	1.25	3.03	24	2-Yr, 18-Hr
July 1993									
107	2	1000	10	21	0.21	0.25	0.59	17	
108	5	1900	6	17	0.25	0.36	0.91	4	
109	7	0700	11	25	0.44	0.44	0.70	4	
110	7	2100	1	1	0.00	0.02	0.02	11	
111	9	2000	13	25	0.43	0.43	0.64	4	
112	10	1700	9	24	1.05	1.09	2.57	11	1-Yr, 12-Hr
113	11	0700	4	15	0.04	0.07	0.13	13	
114	12	0700	6	3	0.01	0.05	0.07	22	
115	13	1400	7	25	0.81	0.81	2.22	12	1-Yr, 8-Hr
116	15	0500	12	24	0.27	0.28	0.81	25	
117	15	2100	12	24	0.18	0.19	0.82	18	
118	16	1900	14	15	0.36	0.60	3.07	7	2-Yr, 18-Hr
119	18	1500	6	25	0.89	0.89	1.58	11	
120	20	1600	16	25	0.37	0.37	0.70	5	
121	22	0500	10	25	0.70	0.70	1.29	18	
122	23	0400	14	25	1.49	1.49	3.37	18	2-Yr, 18-Hr
123	24	0400	6	25	1.05	1.05	2.12	25	1-Yr, 6-Hr
124	24	1300	6	25	0.27	0.27	0.77	22	
125	25	0400	5	21	0.06	0.07	0.13	13	

Table V-1. (Continued)

<i>Storm number</i>	<i>Storm date</i>	<i>Start time</i>	<i>Storm duration</i>	<i>Number gages</i>	<i>Network avg.</i>	<i>Storm avg.</i>	<i>Network max.</i>	<i>Gage with max.</i>	<i>Storm recurrence frequency</i>
July 1993 (Cont.)									
126	28	0500	6	21	0.14	0.16	0.54	21	
127	31	1400	11	25	0.87	0.87	2.08	9	
August 1993									
128	1	0500	2	1	0.00	0.08	0.08	20	
129	1	1800	5	10	0.08	0.19	0.68	20	
130	3	1300	6	24	0.27	0.28	1.06	10	
131	5	2400	6	5	0.01	0.06	0.13	3	
132	9	1700	3	2	0.00	0.05	0.06	3	
133	10	0100	7	25	0.90	0.90	1.42	25	
134	11	2100	20	25	0.73	0.73	1.39	12	
135	15	2200	6	24	0.60	0.63	1.52	3	
136	16	1500	3	3	0.01	0.05	0.06	14	
137	17	1700	3	5	0.02	0.09	0.12	4	
138	18	0800	5	22	0.34	0.39	1.06	22	
139	18	2100	2	12	0.02	0.04	0.07	6	
140	19	1200	2	2	0.00	0.06	0.07	11	
141	19	1700	1	3	0.01	0.07	0.12	13	
142	22	0800	6	16	0.07	0.11	0.30	2	
143	23	1600	7	25	1.63	1.63	2.34	15	1-Yr, 12-Hr
144	25	0500	5	8	0.05	0.15	0.34	8	
145	28	0500	2	7	0.02	0.07	0.15	5	
146	28	1700	5	21	0.13	0.16	0.34	22	
147	30	1400	2	3	0.04	0.31	0.54	3	
148	30	2000	16	25	1.04	1.04	1.88	25	
September 1993									
149	2	0200	29	25	3.48	3.48	4.79	25	5-Yr, 48-Hr
150	5	2200	15	25	1.07	1.07	1.99	3	
151	7	2400	6	24	0.09	0.10	0.15	15	
152	12	0300	6	25	0.18	0.18	0.37	11	
153	13	0600	36	25	5.36	5.36	6.86	19	50-Yr, 48-Hr
154	22	0700	14	25	0.38	0.38	0.66	25	
155	25	0600	13	25	0.97	0.97	1.27	11	
156	26	1600	4	10	0.02	0.06	0.08	13	
October 1993									
157	8	1400	17	25	0.88	0.88	1.38	23	
158	15	1600	31	25	1.74	1.74	2.33	2	
159	18	1400	10	14	0.03	0.05	0.10	21	
160	20	0900	14	25	0.32	0.32	0.47	17	
161	21	1600	8	18	0.06	0.08	0.13	22	
November 1993									
162	12	1400	8	25	0.35	0.35	0.49	2	
163	13	2000	20	25	0.74	0.74	0.93	17	
164	16	2000	16	25	0.70	0.70	0.91	19	
165	24	0100	11	25	0.11	0.11	0.17	4	
166	24	1700	45	25	0.59	0.59	0.74	24	
167	27	1000	4	13	0.03	0.05	0.10	16	
168	27	2000	11	9	0.02	0.07	0.09	4	

Table V-1. (Continued)

<i>Storm number</i>	<i>Storm date</i>	<i>Start time</i>	<i>Storm (Duration</i>	<i>Number gages</i>	<i>Network avg.</i>	<i>Storm avg.</i>	<i>Network max.</i>	<i>Gage with max.</i>	<i>Storm recurrence frequency</i>
December 1993									
169	1	1900	15	25	0.28	0.28	0.48	23	
170	3	1300	3	1	0.00	0.10	0.10	14	
171	3	2000	10	25	0.15	0.15	0.23	2	
172	13	0100	4	16	0.03	0.05	0.09	4	
173	13	0900	42	25	0.51	0.51	0.68	19	
174	17	2200	5	20	0.06	0.07	0.18	23	
175	24	1900	12	13	0.05	0.10	0.16	11	
176	30	2400	1	2	0.00	0.04	0.04	2	
177	31	2200	3	9	0.02	0.04	0.06	11	
January 1994									
178	2	2200	11	12	0.06	0.12	0.23	24	
179	10	1000	12	25	0.20	0.20	0.29	23	
180	13	1100	7	7	0.02	0.06	0.11	19	
181	16	1200	6	16	0.04	0.06	0.10	11	
182	25	0600	8	16	0.05	0.07	0.19	16	
183	25	1900	1	1	0.00	0.04	0.04	4	
184	26	2300	23	25	0.53	0.53	0.77	12	
185	29	1500	20	15	0.06	0.11	0.27	7	
February 1994									
186	7	2000	21	13	0.04	0.08	0.22	19	
187	12	1100	5	5	0.01	0.05	0.06	14	
188	19	0400	30	25	0.76	0.76	0.97	3	
189	22	1500	33	25	0.52	0.52	0.94	25	
190	24	1700	23	25	0.26	0.26	0.44	23	
191	28	2000	7	17	0.06	0.08	0.20	25	
March 1994									
192	6	2300	9	25	0.33	0.33	0.47	10	
193	12	2400	6	22	0.05	0.06	0.14	16	
194	13	1500	6	16	0.02	0.04	0.06	6	
195	21	0100	3	11	0.02	0.04	0.08	3	
196	23	1900	4	3	0.01	0.06	0.08	2	
197	26	0600	21	25	0.53	0.53	0.73	23	
April 1994									
198	2	1500	8	25	0.24	0.24	0.31	3	
199	5	1500	6	17	0.03	0.05	0.08	15	
200	9	1500	17	25	0.43	0.43	0.62	2	
201	10	2300	38	25	2.03	2.03	2.64	25	
202	12	2300	9	16	0.03	0.05	0.12	1	
203	15	0300	8	25	0.39	0.39	0.59	22	
204	20	1900	17	25	0.34	0.34	1.12	25	
205	25	1800	6	24	0.09	0.09	0.21	1	
206	26	0400	4	5	0.01	0.03	0.05	4	
207	26	1800	5	6	0.04	0.16	0.35	22	
208	27	1700	22	25	0.70	0.70	0.87	19	
209	29	1700	22	25	0.72	0.72	0.92	19	
May 1994									
210	5	1700	43	25	1.31	1.31	1.70	12	
211	9	1900	4	3	0.00	0.04	0.05	3	

Table V-1. (Continued)

Storm number	Storm date	Start time	Storm duration	Number gages	Network avg.	Storm avg.	Network max.	Gage with max.	Storm recurrence frequency	
May 1994 (Cont.)										
212	11	1500	5	25	0.26	0.26	0.57	15	2-Yr, 12-Hr	
213	14	0400	17	25	0.42	0.42	0.80	2		
214	24	1500	12	25	1.00	1.00	2.83	24		
215	25	1800	7	25	0.10	0.10	0.17	17		
216	31	1400	7	4	0.01	0.08	0.13	10		
June 1994										
217	1	1700	21	25	0.75	0.75	1.13	13	2-Yr, 12-Hr	
218	5	1100	7	24	0.16	0.16	0.47	10		
219	5	2400	1	1	0.00	0.07	0.07	23		
220	7	1900	21	25	0.69	0.69	1.62	19		
221	11	2400	3	11	0.05	0.11	0.17	9		
222	12	1100	8	25	0.47	0.47	1.16	14		
223	14	1600	3	2	0.00	0.05	0.06	4		
224	16	1600	5	17	0.23	0.34	1.08	14		
225	20	1500	7	5	0.02	0.10	0.18	23		
226	23	0500	7	5	0.02	0.10	0.18	23		
227	23	1300	20	25	0.26	0.26	0.37	24		
228	25	1900	6	21	0.10	0.12	0.52	15		
229	26	0500	17	25	0.38	0.38	0.89	22		
July 1994										
230	2	1100	11	25	1.02	1.02	1.99	19	2-Yr, 12-Hr	
231	4	0500	6	24	0.21	0.22	0.64	9		
232	7	1500	7	11	0.09	0.21	0.34	20		
233	16	1700	8	25	0.61	0.61	2.62	19		
234	19	0400	7	24	1.01	1.06	2.78	17		
235	20	0400	1	1	0.00	0.05	0.05	21		
236	20	1500	10	25	0.46	0.46	0.85	7		
237	21	2200	2	7	0.02	0.07	0.09	7		
238	24	1500	3	3	0.00	0.04	0.06	10		
August 1994										
239	1	1300	11	16	0.13	0.20	0.77	24		2-Yr, 12-Hr
240	3	1500	19	25	0.91	0.91	1.75	18		
241	4	1500	7	24	0.17	0.18	0.49	3		
242	13	1500	4	22	0.40	0.45	0.79	18		
243	16	1600	5	2	0.01	0.10	0.14	10		
244	19	2100	9	23	0.15	0.16	0.33	23		
245	26	0800	5	25	0.45	0.45	1.01	16		
246	28	1200	7	25	0.18	0.18	0.30	4		
247	29	1800	3	4	0.01	0.09	0.12	23		
248	29	2400	1	1	0.00	0.04	0.14	11		
249	30	0600	8	25	1.25	1.25	1.83	25		
250	30	2300	2	4	0.01	0.06	0.13	25		
September 1994										
251	4	1200	14	25	0.31	0.31	0.56	13	2-Yr, 12-Hr	
252	21	2100	11	25	0.26	0.26	0.34	2		
253	22	1200	17	25	0.56	0.56	0.86	3		
254	25	0500	7	17	0.06	0.09	0.18	25		
255	25	1500	7	15	0.20	0.33	1.01	7		

Table V-1. (Continued)

<i>Storm number</i>	<i>Storm date</i>	<i>Start time</i>	<i>Storm duration</i>	<i>Number gages</i>	<i>Network avg.</i>	<i>Storm avg.</i>	<i>Network max.</i>	<i>Gage with max.</i>	<i>Storm recurrence frequency</i>
September 1994 (Cont.)									
256	26	0300	7	18	0.11	0.16	0.36	1	
October 1994									
257	6	0300	2	2	0.00	0.06	0.08	25	
258	7	0800	34	25	1.71	1.71	2.55	24	
259	18	1300	10	25	0.12	0.12	0.20	22	
260	22	1900	2	14	0.06	0.10	0.21	21	
261	24	0600	5	11	0.03	0.06	0.13	25	
262	25	2300	3	4	0.01	0.04	0.06	21	
263	30	2400	22	25	1.41	1.41	1.80	19	
November 1994									
264	3	1500	3	25	0.21	0.21	0.56	23	
265	4	0200	2	2	0.01	0.09	0.09	22	
266	4	0800	6	25	0.26	0.26	0.45	1	
267	4	2000	27	25	1.02	1.02	1.94	25	
268	9	0100	16	25	0.28	0.28	0.63	23	
269	13	2000	7	25	0.12	0.12	0.24	7	
270	20	0300	8	25	0.18	0.18	0.25	19	
271	20	1900	10	25	0.53	0.53	0.66	22	
272	27	0300	11	25	0.76	0.76	1.08	2	
273	30	0900	2	2	0.00	0.04	0.05	14	
December 1994									
274	2	1900	8	24	0.06	0.06	0.16	3	
275	3	0700	4	10	0.01	0.03	0.04	7	
276	6	0400	26	25	1.70	1.70	1.97	2	
277	8	1700	12	25	0.21	0.21	0.29	2	
278	16	0100	12	25	0.27	0.27	0.37	23	
279	20	0300	4	5	0.01	0.17	0.10	17	
280	20	1300	4	6	0.01	0.05	0.08	18	
281	31	2300	2	7	0.01	0.04	0.06	8	
January 1995									
282	6	0100	17	17	0.06	0.08	0.16	II	
283	13	0400	30	25	1.61	1.61	2.18	19	
284	17	0500	3	6	0.01	0.04	0.06	19	
285	18	2000	26	25	0.81	0.81	1.03	15	
286	27	0400	27	25	0.41	0.41	0.76	19	
February 1995									
287	3	0200	14	25	0.19	0.19	0.41	25	
288	14	1400	5	20	0.03	0.04	0.06	23	
289	26	1600	15	25	0.38	0.38	0.51	19	
March 1995									
290	4	2200	10	25	0.46	0.46	0.56	19	
291	6	2000	17	25	0.86	0.86	1.22	21	
292	20	0300	6	25	0.22	0.22	0.40	21	
293	22	1800	2	16	0.03	0.05	0.10	6	
294	26	0400	4	25	0.06	0.06	0.09	1	

Table V-1. (Continued)

<i>Storm number</i>	<i>Storm date</i>	<i>Start time</i>	<i>Storm duration</i>	<i>Number gages</i>	<i>Network avg.</i>	<i>Storm avg.</i>	<i>Network max.</i>	<i>Gage with max.</i>	<i>Storm recurrence frequency</i>
March 1995 (Cont.)									
295	26	2100	10	25	0.31	0.31	0.42	19	
April 1995									
296	3	0900	6	25	0.27	0.27	0.43	12	
297	6	1200	2	2	0.01	0.11	0.13	25	
298	6	1800	8	11	0.01	0.03	0.05	12	
299	7	2100	11	25	0.86	0.86	1.34	16	
300	9	0100	7	25	0.64	0.64	0.84	15	
301	9	2300	9	25	0.35	0.35	0.63	1	
302	10	1300	2	12	0.04	0.08	0.16	8	
303	10	2000	2	2	0.00	0.02	0.03	25	
304	11	1000	11	25	0.39	0.39	0.50	1	
305	15	1400	3	7	0.01	0.04	0.05	12	
306	16	2100	4	25	0.32	0.32	0.57	5	
307	17	2000	11	25	0.74	0.74	0.95	2	
308	20	0200	7	25	0.31	0.31	0.39	23	
309	20	2200	2	5	0.01	0.07	0.13	24	
310	23	1700	1	1	0.00	0.04	0.04	9	
311	24	1400	5	23	0.06	0.06	0.12	7	
312	26	0600	9	25	0.11	0.11	0.20	2	
313	26	2200	8	25	0.57	0.57	0.79	22	
314	29	1200	11	25	0.17	0.17	0.25	22	
May 1995									
315	3	1500	18	24	0.07	0.08	0.18	22	
316	7	1900	17	25	1.22	1.22	1.76	4	
317	8	1600	14	25	0.59	0.59	1.18	1	
318	9	1600	4	16	0.09	0.14	0.47	3	
319	10	0200	12	21	0.12	0.14	0.45	17	
320	12	2000	12	25	0.40	0.40	0.50	7	
321	13	1800	1	2	0.01	0.09	0.12	2	
322	16	0500	7	23	0.08	0.09	0.39	25	
323	16	1500	12	25	2.31	2.31	4.22	19	10-Yr, 12-Hr
324	17	0800	21	25	0.88	0.88	1.03	9	
325	18	1000	9	25	0.75	0.75	1.85	18	
326	23	1000	6	25	0.23	0.23	0.46	9	
327	23	1900	24	25	2.77	2.77	3.78	19	5-Yr, 12-Hr
328	26	2200	8	25	0.08	0.08	0.13	18	
329	27	1000	15	25	0.73	0.73	1.13	22	
330	28	0700	1	1	0.00	0.02	0.02	24	
June 1995									
331	2	0800	8	12	0.03	0.07	0.13	10	
332	8	0700	5	25	0.37	0.37	0.70	13	
333	9	0900	5	22	0.11	0.12	0.26	16	
334	9	2300	4	7	0.03	0.12	0.28	3	
335	11	1300	4	14	0.02	0.03	0.04	1	
336	20	1800	11	25	0.35	0.35	1.11	16	
337	21	1900	6	25	0.55	0.55	2.67	19	2-Yr, 6-Hr

Table V-1. (Continued)

<i>Storm number</i>	<i>Storm date</i>	<i>Start time</i>	<i>Storm duration</i>	<i>Number gages</i>	<i>Network avg.</i>	<i>Storm avg.</i>	<i>Network max.</i>	<i>Gage with max.</i>	<i>Storm recurrence frequency</i>
June 1995 (Cont.)									
338	23	1400	6	9	0.02	0.06	0.14	23	2-Yr, 6-Hr
339	24	0100	6	10	0.27	0.68	2.52	22	
340	24	1600	5	9	0.15	0.40	1.91	2	
341	25	1400	6	16	0.06	0.09	0.35	17	
342	26	0200	16	24	0.23	0.24	0.90	1	
343	27	1100	11	15	0.06	0.10	0.42	19	
344	28	1400	7	23	0.30	0.33	1.10	17	
345	29	1100	11	24	0.10	0.10	0.42	24	
July 1995									
346	4	0300	14	23	0.34	0.37	1.09	1	
347	4	2300	5	18	0.09	0.13	0.35	4	
348	5	2100	4	18	0.07	0.09	0.37	1	
349	9	1300	5	9	0.02	0.06	0.14	16	
350	16	1400	5	24	0.26	0.27	0.94	12	
351	18	2000	5	2	0.02	0.20	0.31	10	
352	20	0700	10	23	0.21	0.23	0.45	8	
353	20	2000	4	3	0.00	0.03	0.03	1	
354	21	0800	6	25	0.44	0.44	0.85	12	
355	23	0600	6	25	0.46	0.46	1.10	18	
356	23	2100	4	21	0.13	0.16	0.75	19	
357	24	1600	5	17	0.19	0.28	0.84	24	
358	25	1300	15	22	0.21	0.24	0.56	24	
359	26	1700	4	18	0.19	0.26	0.74	20	
360	27	2000	5	16	0.05	0.08	0.21	14	
361	31	2000	8	22	0.17	0.20	0.65	3	
August 1995									
362	1	1500	5	15	0.07	0.11	0.55	22	
363	2	0200	17	25	0.64	0.64	0.98	19	
364	3	0100	11	23	0.22	0.24	0.57	23	
365	3	2300	15	23	0.28	0.31	1.29	22	
366	4	2100	1	1	0.00	0.01	0.01	25	
367	5	0200	5	9	0.02	0.06	0.12	11	
368	6	1800	2	1	0.00	0.04	0.04	24	
369	6	2300	3	13	0.05	0.10	0.29	12	
370	8	0400	3	4	0.01	0.08	0.23	19	
371	8	1200	6	25	0.45	0.45	1.15	7	
372	9	1900	12	25	0.55	0.55	2.26	12	1-Yr, 12-Hr
373	13	1900	3	1	0.01	0.15	0.15	2	
374	14	1100	2	1	0.00	0.03	0.03	10	
375	15	1600	8	20	0.17	0.22	0.68	1	
376	16	1100	1	1	0.00	0.02	0.02	18	
377	16	1500	7	12	0.03	0.07	0.17	24	
378	17	0100	7	25	0.26	0.26	0.51	23	
379	24	1500	2	1	0.00	0.09	0.09	10	

Table V-1. (Continued)

<i>Storm number</i>	<i>Storm date</i>	<i>Start time</i>	<i>Storm duration</i>	<i>Number gages</i>	<i>Network avg.</i>	<i>Storm avg.</i>	<i>Network max.</i>	<i>Gage with max.</i>	<i>Storm recurrence frequency</i>
September 1995									
380	6	1600	12	20	0.51	0.51	0.62	8	
381	7	1300	24	20	0.58	0.58	1.51	7	
382	17	1300	2	4	0.01	0.03	0.05	23	
383	19	1300	15	20	0.35	0.35	0.45	4	
384	21	0900	16	20	0.17	0.17	0.25	2	
385	30	1900	7	20	0.38	0.38	0.63	19	
October 1995									
386	2	2300	5	6	0.02	0.07	0.10	22	
387	5	1600	8	6	0.03	0.11	0.20	3	
388	6	1700	4	6	0.02	0.06	0.09	23	
389	13	1700	11	20	0.16	0.16	0.30	12	
390	19	1600	10	20	1.36	1.36	1.60	21	
391	20	1100	6	6	0.01	0.04	0.05	11	
392	23	1400	6	20	0.17	0.17	0.30	10	
393	26	1500	12	20	0.38	0.38	0.62	23	
394	30	1200	24	20	0.90	0.90	1.22	7	
November 1995									
395	1	1200	10	20	0.52	0.52	0.89	4	
396	2	0300	10	16	0.13	0.16	0.42	4	
397	10	1300	21	20	1.18	1.18	1.49	7	
December 1995									
398	7	1400	4	2	0.01	0.05	0.08	19	
399	8	0600	18	20	0.10	0.10	0.20	23	
400	17	2100	16	20	0.22	0.22	0.34	19	
401	18	2000	10	15	0.12	0.16	0.33	12	
402	19	0900	3	1	0.00	0.04	0.04	19	
January 1996									
403	4	0300	17	20	0.11	0.11	0.16	22	
404	5	1100	11	9	0.02	0.04	0.10	7	
405	11	0200	11	17	0.09	0.10	0.16	4	
406	17	0700	4	8	0.07	0.18	0.33	8	
407	18	0100	22	20	0.47	0.47	0.98	4	
408	23	0100	13	20	0.10	0.10	0.19	19	
409	26	0700	12	20	0.14	0.14	0.29	18	
410	30	0800	9	3	0.01	0.05	0.05	8	
February 1996									
411	8	0500	5	9	0.01	0.03	0.05	2	
412	21	1500	8	15	0.02	0.03	0.11	12	
413	26	0900	5	5	0.10	0.42	0.85	6	
414	26	1900	13	20	0.63	0.63	1.28	4	
March 1996									
415	5	0100	12	20	1.14	1.14	1.35	2	
416	6	0200	14	20	0.07	0.07	0.13	9	
417	19	1700	14	15	0.04	0.06	0.24	21	
418	23	1300	6	9	0.01	0.03	0.05	22	

Table V-1. (Continued)

<i>Storm number</i>	<i>Storm date</i>	<i>Start time</i>	<i>Storm duration</i>	<i>Number gages</i>	<i>Network avg.</i>	<i>Storm avg.</i>	<i>Network max.</i>	<i>Gage with max.</i>	<i>Storm recurrence frequency</i>	
March 1996 (Cont.)										
419	24	1900	7	20	0.52	0.52	0.82	4	10-Yr, 18-Hr	
420	28	1200	12	20	0.10	0.10	0.16	8		
421	31	0100	13	19	0.05	0.05	0.16	21		
April 1996										
422	14	1800	19	20	0.92	0.92	1.13	2		
423	18	1600	5	19	0.34	0.36	0.94	7		
424	19	1000	2	1	0.00	0.04	0.04	2		
425	19	1600	4	14	0.30	0.43	1.14	11		
426	21	1900	15	20	0.61	0.61	1.49	16		
427	27	1900	41	20	0.43	0.43	0.65	19		
May 1996										
428	3	1800	18	20	0.33	0.33	0.48	19		
429	5	0600	6	12	0.05	0.08	0.22	8		
430	6	1900	12	20	0.31	0.31	0.60	19		
431	7	1400	6	6	0.01	0.03	0.05	12		
432	8	0100	14	20	1.30	1.30	4.64	24		
433	9	1200	2	1	0.00	0.08	0.08	3		
434	10	0200	21	20	0.51	0.51	0.83	22		
435	13	0300	3	1	0.00	0.03	0.03	20		
436	13	0900	1	1	0.00	0.04	0.04	23		
437	13	1400	6	5	0.01	0.05	0.10	13		
438	14	1400	8	14	0.03	0.05	0.10	15		
439	15	0100	6	15	0.04	0.06	0.13	8		
440	16	0700	3	2	0.00	0.02	0.02	2		
441	20	1500	12	17	0.13	0.15	0.34	4		
442	23	0200	8	20	0.27	0.27	0.49	24		
443	24	0300	1	2	0.00	0.03	0.05	9		
444	24	0900	7	20	0.37	0.37	0.60	3		
445	25	0400	5	9	0.09	0.20	0.66	2		
446	25	1700	8	20	0.23	0.23	0.56	19		
447	26	1100	7	20	0.46	0.46	0.74	24		
448	26	2300	12	20	1.17	1.17	1.83	3		
449	28	0600	6	7	0.03	0.09	0.20	6		
450	29	0700	8	2	0.00	0.04	0.04	2		
451	30	0600	3	2	0.00	0.01	0.02	18		
452	31	0800	1	1	0.00	0.01	0.01	2		
June 1996										
453	1	0600	19	20	0.66	0.66	0.89	8		
454	2	1900	5	20	0.29	0.29	0.56	6		
455	5	2100	5	20	0.19	0.19	0.53	12		
456	6	1800	4	20	0.50	0.50	1.35	16		
457	8	1800	15	19	0.04	0.04	0.09	19		
458	9	2100	8	20	0.10	0.10	0.34	9		
459	13	1400	8	15	0.31	0.41	1.21	23		
460	17	0500	2	6	0.03	0.09	0.20	7		

Table V-1. (Continued)

<i>Storm number</i>	<i>Storm date</i>	<i>Start time</i>	<i>Storm duration</i>	<i>Number gages</i>	<i>Network avg.</i>	<i>Storm avg.</i>	<i>Network max.</i>	<i>Gage with max.</i>	<i>Storm recurrence frequency</i>
June 1996 (Cont.)									
461	17	1700	11	17	0.15	0.18	0.41	24	
462	21	1800	4	2	0.01	0.14	0.16	10	
463	23	2100	5	20	0.56	0.56	0.99	9	
July 1996									
464	12	2200	6	13	0.14	0.21	0.41	23	
465	14	0300	21	20	0.55	0.55	1.02	15	
466	16	1200	2	6	0.01	0.04	0.07	11	
467	20	1200	23	20	1.08	1.08	1.44	2	
468	22	1700	4	20	0.13	0.13	0.29	3	
469	23	2000	10	20	0.23	0.23	0.60	13	
470	24	1100	4	19	0.13	0.14	0.34	15	
471	27	2300	2	2	0.00	0.02	0.03	22	
472	28	1400	8	11	0.21	0.38	1.19	3	
473	30	0100	5	17	0.37	0.43	1.15	15	
August 1996									
474	7	1700	5	6	0.07	0.24	1.05	2	
475	16	2100	39	20	0.89	0.89	1.54	24	
476	19	0200	3	2	0.01	0.06	0.06	2	
477	23	1100	2	1	0.02	0.32	0.32	12	
September 1996									
478	06	1700	6	2	0.02	0.18	0.24	2	
479	08	1200	2	4	0.01	0.04	0.05	21	
480	08	1700	3	3	0.02	0.10	0.16	12	
481	23	0500	10	20	0.34	0.34	0.41	19	
482	25	1600	4	8	0.04	0.09	0.12	11	
483	25	2300	27	20	1.15	1.15	1.62	24	
October 1996									
484	07	1200	1	1	0.00	0.03	0.03	8	
485	07	1800	10	19	0.39	0.41	0.67	23	
486	08	1500	1	1	0.00	0.04	0.04	23	
487	17	0200	4	3	0.01	0.07	0.10	15	
488	17	1200	10	20	0.62	0.62	1.24	23	
489	21	0400	6	10	0.01	0.03	0.06	24	
490	21	1300	2	2	0.00	0.02	0.03	23	
491	21	1900	1	1	0.00	0.03	0.03	13	
492	21	2400	20	20	0.68	0.68	0.93	24	
493	22	2300	9	20	0.06	0.06	0.11	12	
494	29	1400	6	20	0.19	0.19	0.43	18	
November 1996									
495	04	1700	10	12	0.03	0.04	0.08	3	
496	06	0700	19	20	1.14	1.14	1.47	2	
497	07	0500	9	14	0.07	0.11	0.25	22	
498	16	2000	15	18	0.20	0.23	0.29	24	
499	20	2300	17	18	0.08	0.09	0.22	16	
500	23	0900	10	2	0.01	0.05	0.09	2	

Table V-1. (Continued)

<i>Storm number</i>	<i>Storm date</i>	<i>Start time</i>	<i>Storm duration</i>	<i>Number gages</i>	<i>Network avg.</i>	<i>Storm avg.</i>	<i>Network max.</i>	<i>Gage with max.</i>	<i>Storm recurrence frequency</i>
November 1996 (Cont.)									
501	24	0300	17	19	0.24	0.25	0.34	21	
502	29	1400	14	20	0.36	0.36	0.60	2	
503	30	2300	2	14	0.02	0.03	0.08	18	
December 1996									
504	01	0100	12	20	0.11	0.11	0.21	19	
505	04	2300	15	19	0.14	0.15	0.28	11	
506	11	0400	4	14	0.04	0.05	0.21	23	
507	14	2400	4	16	0.04	0.05	0.09	11	
508	23	0300	14	19	0.54	0.57	1.17	18	
January 1997									
509	04	1000	6	4	0.01	0.05	0.08	2	
510	08	2300	14	17	0.14	0.17	0.33	12	
511	09	1800	10	11	0.03	0.06	0.11	4	
512	12	1100	4	2	0.01	0.14	0.15	24	
513	12	1900	4	2	0.01	0.09	0.14	24	
514	15	0300	36	15	0.24	0.32	0.44	23	
515	21	1300	5	10	0.03	0.06	0.10	3	
516	21	2400	4	15	0.05	0.07	0.12	9	
517	22	0900	2	1	0.00	0.04	0.04	20	
518	24	0900	8	18	0.30	0.33	0.44	22	
519	26	0500	9	18	0.10	0.11	0.19	19	
520	26	2300	2	1	0.00	0.02	0.02	8	
521	27	0700	11	17	0.15	0.17	0.41	18	
February 1997									
522	02	1500	8	1	0.00	0.08	0.08	18	
523	03	0500	3	2	0.00	0.01	0.01	7	
524	03	1100	27	18	0.11	0.12	0.21	18	
525	15	1600	13	18	0.06	0.07	0.14	3	
526	19	0300	8	8	0.02	0.04	0.06	10	
527	20	1100	39	19	2.07	2.18	3.56	2	2-Yr, 48-Hr
528	26	0400	35	19	1.28	1.35	1.96	16	
529	28	1700	8	18	0.14	0.15	0.30	19	
March 1997									
530	01	0100	21	19	0.09	0.10	0.20	8	
531	09	0500	9	20	0.88	0.88	1.26	18	
532	13	1400	13	19	0.43	0.46	0.71	16	
533	18	0100	11	8	0.04	0.09	0.20	19	
534	24	1200	5	20	0.30	0.30	0.38	18	
535	24	2300	7	18	0.08	0.08	0.16	18	
536	27	2400	5	7	0.01	0.04	0.06	18	
537	30	0400	9	19	0.08	0.09	0.15	2	
April 1997									
538	04	1400	34	20	0.38	0.38	1.32	24	
539	06	0300	4	2	0.00	0.04	0.05	22	
540	10	1200	35	20	0.87	0.87	1.53	4	

Table V-1. (Continued)

<i>Storm number</i>	<i>Storm date</i>	<i>Start time</i>	<i>Storm duration</i>	<i>Number gages</i>	<i>Network avg.</i>	<i>Storm avg.</i>	<i>tNetwork max.</i>	<i>Gage with max.</i>	<i>Storm recurrence frequency</i>
April 1997 (Cont.)									
541	12	1100	14	3	0.02	0.10	0.13	11	
542	15	2300	4	18	0.09	0.10	0.18	18	
543	18	1700	9	10	0.04	0.08	0.18	6	
544	20	1600	8	9	0.06	0.13	0.22	24	
545	21	0700	15	7	0.03	0.09	0.26	3	
546	27	0200	10	12	0.04	0.06	0.08	20	
547	30	0500	2	1	0.00	0.04	0.04	2	
548	30	1200	4	18	0.20	0.22	0.50	20	
May 1997									
549	02	0600	5	19	0.06	0.06	0.18	19	
550	02	2400	9	20	0.45	0.45	0.82	9	
551	03	1200	4	14	0.03	0.05	0.13	10	
552	07	1300	4	6	0.01	0.03	0.06	3	
553	07	2200	9	20	0.45	0.45	0.80	20	
554	11	1500	2	3	0.00	0.03	0.03	22	
555	13	2400	5	2	0.01	0.10	0.12	16	
556	16	1600	2	1	0.00	0.04	0.04	10	
557	16	2100	6	10	0.06	0.11	0.34	16	
558	18	0700	6	19	0.09	0.09	0.13	3	
559	18	2100	11	20	0.33	0.33	0.64	13	
560	24	1500	6	9	0.03	0.07	0.17	23	
561	25	1600	27	20	1.20	1.20	2.63	16	
562	27	1500	9	20	0.24	0.24	0.37	9	
563	28	1400	9	9	0.05	0.11	0.29	12	
June 1997									
564	01	1400	18	12	0.05	0.09	0.19	23	
565	06	0400	12	18	0.38	0.43	0.89	7	
566	07	1300	20	18	0.31	0.35	0.98	18	
567	08	1200	3	4	0.00	0.02	0.03	3	
568	10	2200	8	2	0.02	0.25	0.40	24	
569	11	2000	8	4	0.05	0.27	0.56	22	
570	12	0900	10	15	0.56	0.74	1.62	16	
571	15	2100	8	13	0.04	0.06	0.15	21	
572	20	0800	4	6	0.07	0.24	1.03	16	
573	21	0500	3	3	0.02	0.14	0.26	24	
574	25	1500	6	17	0.08	0.10	0.38	3	
575	29	1500	2	6	0.06	0.20	0.49	9	
576	30	0300	3	3	0.02	0.15	0.24	19	
577	30	1200	13	15	0.15	0.20	0.72	24	
July 1997									
578	03	1000	14	18	0.27	0.30	0.56	16	
579	13	1500	2	4	0.03	0.13	0.19	8	
580	19	1200	11	19	1.27	1.34	3.98	21	10-Yr, 12-Hr
581	20	0500	2	1	0.00	0.08	0.08	23	
582	21	0500	19	19	0.56	0.59	1.28	11	

Table V-1. (Concluded)

<i>Storm number</i>	<i>Storm date</i>	<i>Start time</i>	<i>Storm duration</i>	<i>Number gages</i>	<i>Network avg.</i>	<i>Storm avg.</i>	<i>Network max.</i>	<i>Gage with max.</i>	<i>Storm recurrence frequency</i>
July 1997 (Cont.)									
583	27	1700	8	13	0.34	0.53	1.77	18	
August 1997									
584	03	1700	15	19	0.51	0.53	1.53	8	
585	08	2400	10	19	0.56	0.58	1.29	15	
586	09	1600	2	2	0.01	0.15	0.17	12	
587	11	0100	4	4	0.03	0.17	0.38	3	
588	11	2000	5	12	0.09	0.14	0.45	22	
589	12	1300	6	16	0.25	0.31	0.83	10	
590	15	0100	5	19	0.27	0.28	0.64	23	
591	16	2300	15	19	1.44	1.51	3.06	2	2-Yr, 18-Hr
592	17	1900	1	1	0.00	0.07	0.07	19	
593	19	0800	9	18	0.25	0.28	0.48	24	
594	21	0700	2	1	0.00	0.03	0.03	2	
595	21	1500	8	18	0.09	0.10	0.18	16	
596	24	1300	11	15	0.29	0.38	0.92	9	
597	26	0600	4	4	0.02	0.12	0.18	24	
598	30	0700	8	19	0.42	0.44	0.94	12	

Table V-2. Precipitation Received at Each Station from Each Storm Period during the Observation Period (September 1992-August 1996)

Storm	Date	Hour	Duration*	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
1	090192	0900	8	0.50	0.65	0.13	0.94	0.59	0.87	0.16	0.22	0.16	0.32	1.07	0.30	0.04	0.37	1.03	0.91	0.25	0.13	0.69	0.46	0.27	0.53	0.40	0.18	0.13
2	090292	0300	II	0.28	0.22	0.23	0.38	0.19	0.20	0.14	0.33	0.24	0.21	0.19	0.16	0.21	0.29	0.20	0.15	0.16	0.20	0.35	0.25	0.24	0.21	0.19	0.23	0.32
3	090292	2100	3	0.00	0.00	0.13	0.00	0.00	0.00	0.03	0.04	0.12	0.19	0.16	0.28	0.00	0.08	0.07	0.09	0.14	0.00	0.00	0.00	0.00	0.02	0.09	0.00	0.00
4	090792	2100	7	0.42	0.41	0.61	0.74	0.86	0.93	0.40	0.54	0.94	0.72	0.40	0.46	0.66	0.50	0.55	0.59	0.42	1.14	0.94	1.08	0.88	0.83	0.40	1.83	1.26
5	090992	0300	20	1.37	1.43	1.21	1.45	1.46	1.23	1.45	1.68	1.68	1.53	1.62	1.42	1.56	1.89	1.33	1.48	1.43	1.31	0.82	0.90	1.11	1.24	1.36	0.82	0.69
6	091492	1400	2	0.00	0.00	0.00	0.13	0.25	0.04	0.05	0.00	0.00	0.14	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00
7	091892	0600	6	0.06	0.06	0.02	0.05	0.05	0.02	0.03	0.10	0.07	0.04	0.04	0.03	0.00	0.03	0.01	0.04	0.04	0.03	0.02	0.07	0.00	0.05	0.07	0.12	0.14
8	091892	1800	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.09	0.00
9	092092	0800	24	1.28	1.15	0.94	1.27	1.42	0.83	1.27	1.21	0.99	1.33	1.32	0.99	1.20	1.00	1.12	0.96	0.87	1.17	1.12	0.94	1.13	0.92	0.71	1.03	0.84
10	092592	2200	24	0.23	0.15	0.18	0.33	0.21	0.17	0.12	0.28	0.24	0.21	0.15	0.14	0.28	0.29	0.21	0.11	0.13	0.37	0.38	0.31	0.17	0.15	0.21	0.36	0.35
11	100892	0300	37	0.32	0.30	0.46	0.33	0.32	0.39	0.35	0.40	0.35	0.50	0.43	0.43	0.28	0.26	0.26	0.27	0.30	0.29	0.29	0.19	0.29	0.33	0.30	0.41	0.41
12	100992	2400	8	0.14	0.14	0.07	0.17	0.10	0.08	0.05	0.11	0.13	0.05	0.07	0.09	0.07	0.06	0.07	0.06	0.08	0.04	0.00	0.03	0.00	0.03	0.00	0.01	0.00
13	101092	1600	3	0.09	0.06	0.05	0.07	0.05	0.15	0.05	0.02	0.04	0.08	0.20	0.05	0.00	0.03	0.05	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14	101492	2300	11	0.90	0.82	0.64	0.94	0.99	1.08	0.85	0.83	1.14	1.25	1.24	1.04	0.53	1.09	0.99	1.05	1.00	0.36	0.56	0.62	0.65	0.88	1.14	0.26	0.33
15	101592	2000	3	0.00	0.00	0.00	0.01	0.00	0.00	0.03	0.02	0.03	0.00	0.01	0.03	0.05	0.05	0.05	0.04	0.07	0.03	0.04	0.06	0.09	0.09	0.16	0.00	0.06
16	101992	2200	6	0.10	0.10	0.06	0.14	0.14	0.11	0.09	0.16	0.13	0.11	0.12	0.12	0.19	0.17	0.22	0.16	0.14	0.30	0.26	0.24	0.24	0.24	0.19	0.43	0.42
17	102892	1900	4	0.00	0.00	0.00	0.02	0.01	0.00	0.00	0.03	0.02	0.02	0.03	0.02	0.05	0.07	0.04	0.04	0.05	0.00	0.05	0.00	0.04	0.05	0.04	0.00	0.00
18	102992	0400	6	0.10	0.09	0.06	0.09	0.09	0.05	0.05	0.07	0.08	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	102992	1800	19	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.03	0.03	0.05	0.06	0.06	0.07	0.05	0.07	0.11	0.04	0.06	0.13	0.22	0.17	0.17	0.21	0.29	0.25
20	103192	1600	38	1.52	1.71	1.49	1.29	2.22	2.32	1.93	1.57	1.97	3.21	3.39	2.37	2.08	1.54	3.08	2.21	2.80	1.87	2.44	2.77	2.59	1.95	1.93	1.74	2.39
21	110392	0900	14	0.59	0.59	0.60	0.57	0.62	0.58	0.70	0.54	0.61	0.62	0.65	0.73	0.56	0.59	0.66	0.68	0.77	0.48	0.68	0.59	0.65	0.81	0.76	0.52	0.57
22	110892	2300	12	0.33	0.32	0.30	0.28	0.33	0.26	0.23	0.28	0.26	0.22	0.25	0.20	0.21	0.23	0.16	0.18	0.19	0.13	0.20	0.14	0.18	0.28	0.26	0.22	0.18
23	110992	1900	16	0.37	0.51	0.71	0.42	0.69	0.78	0.62	0.47	0.61	0.89	0.79	0.81	0.81	0.70	0.79	0.71	0.83	0.87	1.02	0.72	0.66	0.70	0.62	0.84	0.74
24	111092	1700	15	0.11	0.08	0.07	0.07	0.09	0.07	0.11	0.10	0.11	0.11	0.22	0.15	0.13	0.18	0.15	0.16	0.19	0.14	0.18	0.19	0.30	0.19	0.16	0.20	0.27
25	111192	1700	23	0.73	0.61	0.79	0.67	0.68	0.75	0.46	0.67	0.59	0.73	0.62	0.52	0.72	0.56	0.55	0.43	0.45	0.64	0.76	0.50	0.42	0.45	0.38	0.53	0.40
26	111792	1900	3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.03
27	111892	0200	6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.09
28	111892	1500	18	0.52	0.29	0.41	0.62	0.52	0.51	0.45	0.63	0.59	0.57	0.48	0.48	0.67	0.55	0.56	0.54	0.43	0.49	0.84	0.46	0.47	0.37	0.36	0.46	0.61
29	111992	2400	12	0.34	0.18	0.17	0.24	0.28	0.18	0.16	0.22	0.18	0.21	0.18	0.15	0.16	0.15	0.23	0.19	0.08	0.11	0.23	0.22	0.19	0.17	0.14	0.16	0.19
30	112092	1600	11	0.49	0.44	0.37	0.54	0.43	0.39	0.40	0.60	0.48	0.46	0.38	0.35	0.57	0.44	0.45	0.37	0.36	0.61	0.57	0.44	0.42	0.35	0.35	0.66	0.63
31	112292	0400	25	0.56	0.39	0.49	0.53	0.59	0.63	0.39	0.52	0.60	0.75	0.73	0.74	0.54	0.60	0.68	0.89	0.87	0.54	0.86	0.66	0.68	0.82	0.77	0.66	0.79
32	112592	0300	20	0.52	0.37	0.41	0.47	0.40	0.30	0.16	0.43	0.39	0.35	0.26	0.23	0.45	0.38	0.34	0.33	0.36	0.41	0.51	0.42	0.37	0.41	0.44	0.30	0.46
33	113092	1500	6	0.00	0.00	0.00	0.02	0.05	0.00	0.00	0.06	0.03	0.03	0.00	0.00	0.00	0.00	0.05	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
34	120392	0700	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.03	0.00	0.00
35	120992	1200	25	0.38	0.27	0.31	0.34	0.24	0.27	0.30	0.33	0.34	0.35	0.44	0.25	0.41	0.32	0.37	0.34	0.36	0.31	0.37	0.33	0.36	0.37	0.43	0.40	0.41
36	121492	0900	3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00
37	121492	2100	24	1.43	1.34	1.31	1.60	1.53	1.54	1.30	1.60	1.73	1.48	1.62	1.16	1.61	1.62	1.45	1.22	1.29	1.65	1.98	1.60	1.53	1.48	1.41	1.81	1.59
38	121992	0500	2	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Note: *Duration specified in hours. Values in boldface type exceed one-year or more recurrence frequency.

Table V-2. (Continued)

Storm	Date	Hour	Duration*	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
39	121992	1000	11	0.33	0.34	0.39	0.36	0.32	0.37	0.32	0.34	0.37	0.27	0.30	0.26	0.30	0.37	0.24	0.29	0.31	0.22	0.33	0.28	0.25	0.16	0.15	0.30	0.28
40	122092	0800	5	0.04	0.04	0.06	0.00	0.07	0.06	0.06	0.00	0.00	0.08	0.07	0.07	0.07	0.02	0.08	0.06	0.00	0.02	0.00	0.00	0.03	0.00	0.00	0.00	0.00
41	122892	1000	2	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
42	122892	2300	47	0.67	0.72	0.68	0.60	0.64	0.48	0.66	0.48	0.51	0.75	0.75	0.69	0.70	0.70	0.59	0.71	0.56	0.55	0.59	0.55	0.63	0.86	0.70	0.37	0.29
43	010193	2000	3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00
44	010293	0400	34	0.31	0.30	0.41	0.24	0.29	0.24	0.27	0.22	0.24	0.17	0.29	0.11	0.40	0.21	0.29	0.25	0.27	0.22	0.33	0.33	0.28	0.25	0.17	0.21	0.29
45	010393	2100	23	1.65	1.58	1.70	1.71	1.62	1.75	1.64	1.67	1.71	1.63	1.80	1.47	1.69	1.79	1.52	1.62	1.81	1.62	1.71	2.24	1.70	1.85	1.83	1.79	1.46
46	010693	1100	3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.05	0.06	0.00	0.00
47	010793	1100	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.03	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.07	0.00
48	010793	2000	15	0.04	0.04	0.09	0.07	0.08	0.06	0.06	0.09	0.06	0.10	0.05	0.08	0.25	0.13	0.08	0.08	0.09	0.00	0.00	0.05	0.07	0.05	0.05	0.09	0.13
49	010993	1300	20	0.17	0.18	0.23	0.10	0.11	0.09	0.08	0.19	0.33	0.25	0.22	0.44	0.12	0.48	0.17	0.17	0.33	0.08	0.36	0.15	0.18	0.19	0.17	0.23	0.52
50	011293	0700	24	0.33	0.42	0.43	0.30	0.26	0.37	0.43	0.20	0.23	0.40	0.44	0.42	0.10	0.23	0.33	0.46	0.38	0.06	0.35	0.35	0.42	0.46	0.39	0.23	0.21
51	012093	0900	21	1.14	1.05	0.69	0.81	1.03	0.96	0.72	0.76	0.87	0.94	1.02	0.81	0.89	0.67	0.85	0.98	1.02	0.80	1.10	0.84	0.99	1.23	1.11	0.77	0.83
52	021193	0800	30	0.85	0.66	0.38	0.87	0.85	0.92	0.50	0.48	0.53	0.72	1.03	1.10	0.56	0.57	0.60	0.75	0.97	0.49	0.84	0.56	0.58	0.57	0.58	0.67	0.88
53	021293	1800	23	0.21	0.00	0.06	0.12	0.04	0.08	0.04	0.13	0.11	0.11	0.08	0.00	0.14	0.24	0.20	0.18	0.10	0.21	0.18	0.19	0.12	0.06	0.08	0.14	0.12
54	021593	1500	18	0.11	0.05	0.16	0.14	0.06	0.12	0.14	0.13	0.15	0.21	0.20	0.09	0.21	0.17	0.18	0.15	0.12	0.07	0.27	0.12	0.15	0.17	0.19	0.20	0.14
55	022093	1400	24	0.65	0.44	0.33	0.41	0.49	0.40	0.36	0.41	0.51	0.49	0.75	0.36	0.53	0.47	0.42	0.42	0.42	0.40	0.52	0.40	0.36	0.31	0.48	0.33	0.35
56	022593	0500	26	0.18	0.09	0.17	0.12	0.17	0.17	0.09	0.20	0.17	0.19	0.17	0.35	0.42	0.32	0.23	0.23	0.34	0.18	0.69	0.14	0.12	0.26	0.23	0.13	0.41
57	030293	0800	14	0.48	0.51	0.31	0.30	0.35	0.29	0.21	0.33	0.22	0.32	0.34	0.24	0.33	0.16	0.23	0.24	0.26	0.31	0.36	0.21	0.25	0.29	0.20	0.33	0.34
58	030393	0400	47	0.61	0.28	0.26	1.12	1.06	0.87	0.51	1.22	1.39	1.32	1.25	1.00	1.28	1.42	1.33	1.32	1.22	1.39	1.96	1.42	1.10	1.19	1.09	1.55	1.86
59	030593	1900	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00
60	030793	1700	7	0.03	0.00	0.03	0.17	0.05	0.02	0.04	0.00	0.03	0.05	0.00	0.05	0.05	0.03	0.00	0.00	0.00	0.08	0.06	0.00	0.00	0.00	0.00	0.17	0.13
61	030993	2400	3	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.08	0.00	0.00	0.00	0.00
62	031593	2100	25	0.46	0.45	0.45	0.38	0.44	0.40	0.33	0.29	0.41	0.39	0.36	0.29	0.35	0.42	0.38	0.40	0.41	0.25	0.29	0.27	0.32	0.28	0.28	0.42	0.30
63	031993	0200	21	0.16	0.10	0.16	0.15	0.19	0.21	0.19	0.12	0.20	0.26	0.40	0.19	0.28	0.26	0.28	0.21	0.23	0.21	0.30	0.27	0.24	0.35	0.36	0.29	0.22
64	032093	0700	6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.04	0.00	0.00
65	032193	1100	41	1.69	1.46	1.40	1.71	1.63	1.44	1.29	1.61	1.52	1.50	1.38	1.12	1.68	1.45	1.44	1.20	1.16	1.43	1.58	1.27	1.22	1.18	1.00	1.49	1.53
66	033093	2200	43	0.77	0.73	0.82	0.69	0.56	0.56	0.61	0.79	0.74	0.43	0.50	0.58	0.62	0.70	0.53	0.37	0.36	0.46	0.81	0.44	0.32	0.32	0.24	0.46	0.43
67	040193	2200	10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.19	0.19
68	040593	2400	4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.00
69	040793	1000	37	0.91	0.89	0.95	0.79	0.84	0.85	0.72	0.76	0.90	0.90	0.93	0.74	0.77	0.95	0.77	0.76	0.76	0.72	0.95	0.68	0.72	0.72	0.64	0.63	0.64
70	041293	1900	4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.05	0.00	0.00	0.00	0.00	0.10	0.08
71	041393	1400	16	0.82	0.75	0.81	0.87	0.76	0.95	0.84	0.82	0.76	1.21	1.19	0.96	1.27	0.83	1.25	1.27	1.32	1.44	1.78	1.42	1.87	1.83	1.56	1.38	1.60
72	041493	1300	34	1.69	1.63	1.46	1.74	2.07	1.67	1.61	1.13	1.85	1.55	1.56	1.85	1.12	1.86	2.09	1.62	1.68	1.31	1.24	1.66	1.96	1.87	1.69	1.40	1.26
73	041693	1100	9	0.08	0.00	0.06	0.00	0.03	0.07	0.06	0.00	0.03	0.05	0.00	0.04	0.00	0.06	0.04	0.00	0.05	0.09	0.10	0.11	0.00	0.00	0.06	0.02	0.05
74	041993	0300	7	0.18	0.14	0.08	0.14	0.17	0.12	0.10	0.13	0.12	0.15	0.12	0.10	0.15	0.10	0.12	0.12	0.10	0.22	0.11	0.18	0.14	0.10	0.09	0.13	0.15
75	041993	1600	26	0.66	0.52	0.73	0.40	0.71	0.80	0.52	0.81	0.67	0.85	0.61	0.83	0.87	0.77	0.70	0.83	1.09	0.80	0.74	0.93	0.97	1.06	0.91	0.89	0.75
76	042493	2100	13	0.25	0.29	0.14	0.19	0.24	0.16	0.17	0.23	0.24	0.21	0.21	0.22	0.25	0.29	0.24	0.25	0.25	0.39	0.25	0.38	0.20	0.27	0.26	0.34	0.24

Note: *Duration specified in hours. Values in boldface type exceed one-year or more recurrence frequency.

Table V-2. (Continued)

Storm	Date	Hour	Duration*	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
77	042893	2400	13	0.18	0.09	0.21	0.20	0.28	0.19	0.16	0.22	0.19	0.19	0.26	0.16	0.26	0.20	0.20	0.18	0.17	0.12	0.22	0.20	0.19	0.08	0.11	0.21	0.18
78	050193	0100	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
79	050193	1200	12	0.14	0.17	0.08	0.16	0.12	0.12	0.00	0.39	0.15	0.30	0.00	0.06	0.23	0.22	0.25	0.09	0.02	0.15	0.16	0.22	0.21	0.03	0.00	0.00	0.11
80	050293	1400	25	0.15	0.11	0.10	0.49	0.13	0.14	0.11	0.28	0.11	0.14	0.15	0.11	0.13	0.26	0.12	0.18	0.22	0.46	0.22	0.14	0.14	0.19	0.21	0.46	0.56
81	050493	0300	16	0.35	0.54	0.81	0.23	0.41	0.12	0.79	0.00	0.06	0.08	0.24	0.68	0.00	0.00	0.13	0.32	0.57	0.04	0.00	0.00	0.00	0.00	0.44	0.07	0.00
82	050593	0700	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
83	050593	1100	5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.10	0.00	0.00	0.00	0.31	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.05
84	050693	0600	10	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.34	0.33	0.06	0.00	0.84	0.47	0.25	0.05	0.14	0.00	0.99	0.59
85	05 1093	1100	13	0.04	0.09	0.06	0.06	0.00	0.09	0.10	0.67	0.00	0.04	0.05	0.03	0.68	0.20	0.11	0.05	0.00	0.05	0.22	0.08	0.28	0.05	0.06	0.20	0.05
86	05 11 93	1700	3	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.03	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
87	051293	1300	9	0.39	0.41	0.51	0.37	0.44	0.61	0.30	0.46	0.39	0.42	0.64	0.44	0.45	0.40	0.43	0.53	0.61	0.42	0.33	0.36	0.28	0.51	0.72	0.53	0.29
88	05 1893	1800	4	0.00	0.00	0.03	0.12	0.00	0.00	0.00	0.00	0.05	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.05
89	05 2193	1500	4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00
90	05 2293	1400	18	1.00	0.88	0.77	0.52	0.62	0.38	0.46	0.28	0.41	0.34	0.42	0.30	0.43	0.35	0.36	0.37	0.30	0.11	0.14	0.10	0.15	0.21	0.13	0.13	0.00
91	05 2393	1400	15	0.47	0.43	0.21	0.32	0.11	0.13	0.14	0.07	0.10	0.07	0.12	0.06	0.04	0.05	0.05	0.10	0.05	0.12	0.06	0.10	0.15	0.08	0.00	0.10	0.14
92	052893	2000	17	0.67	0.63	0.71	2.09	1.33	0.93	0.70	0.50	0.60	0.43	0.48	0.75	0.14	0.28	0.29	0.26	0.26	0.03	0.06	0.08	0.04	0.10	0.15	0.00	0.00
93	05 3093	0800	16	0.23	0.20	0.14	0.35	0.07	0.11	0.07	0.33	0.30	0.07	0.24	0.11	0.67	0.57	0.52	0.16	0.20	0.23	0.22	0.57	0.46	0.49	0.29	0.00	0.04
94	060193	2200	13	0.66	0.66	0.68	0.56	0.55	0.50	0.56	0.31	0.35	0.50	0.62	0.53	0.27	0.19	0.30	0.37	0.45	0.31	0.30	0.32	0.21	0.23	0.25	0.22	0.27
95	060393	2300	19	0.97	0.84	1.05	0.97	1.39	1.12	0.95	1.20	1.17	1.14	1.08	1.18	1.15	1.17	1.11	0.95	1.09	1.31	0.99	0.78	0.62	0.87	1.27	0.91	0.96
96	060793	2300	13	0.29	0.12	0.82	0.21	0.14	0.16	0.67	0.29	0.11	0.26	0.56	0.42	0.10	0.10	0.60	0.29	0.56	0.17	0.22	0.40	0.35	0.46	0.15	0.00	0.18
97	060893	1600	4	0.11	0.12	0.21	0.07	0.12	0.19	0.29	0.05	0.13	0.17	0.25	0.33	0.09	0.15	0.18	0.24	0.31	0.11	0.13	0.00	0.23	0.25	0.31	0.13	0.08
98	061593	0300	4	0.00	0.00	0.15	0.12	0.06	0.11	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.02	0.06	0.00	0.00	0.00	0.00	0.00
99	061793	2100	12	0.44	0.52	0.35	0.13	0.13	0.30	0.30	0.15	0.12	0.38	0.28	0.20	0.13	0.20	0.38	0.16	0.19	0.18	0.25	0.53	0.24	0.23	0.23	0.21	0.21
100	061893	1500	18	0.26	0.50	0.45	0.05	0.36	0.14	0.26	0.06	0.01	0.04	0.00	0.00	0.46	0.08	0.17	0.00	0.00	0.41	0.05	0.27	0.11	0.12	0.00	0.68	0.19
101	061993	1400	9	0.56	0.35	0.18	0.39	0.29	0.26	0.61	0.41	0.28	0.60	0.43	0.41	0.67	0.90	0.82	0.40	0.41	1.01	1.19	0.39	0.37	0.16	0.20	0.30	0.44
102	062493	2100	13	1.02	0.85	0.87	1.50	1.39	1.04	0.88	2.05	1.59	1.36	1.18	1.03	2.09	1.52	1.71	0.96	1.05	1.79	1.98	1.60	1.32	0.76	1.19	1.58	1.22
103	062893	0700	9	0.10	0.07	0.10	0.34	0.27	0.16	0.14	1.57	1.19	0.84	0.40	0.43	0.33	0.77	0.86	0.94	0.75	0.00	0.00	0.00	0.00	0.24	0.33	0.00	0.00
104	062893	2400	4	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.87	0.05	0.03	0.00	0.00	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00
105	063093	0100	8	1.11	1.09	1.17	1.68	1.34	0.92	0.99	2.06	1.86	1.94	1.82	1.48	1.49	1.36	1.75	3.29	2.24	1.27	1.50	1.66	1.22	1.04	1.30	1.23	1.18
106	063093	2300	14	0.57	0.52	1.30	0.69	0.60	0.73	0.90	0.83	1.00	1.03	0.73	1.06	1.25	1.37	1.69	1.21	1.29	1.11	1.38	1.50	1.47	2.17	1.87	3.03	2.07
107	070293	1000	10	0.12	0.19	0.52	0.07	0.08	0.04	0.43	0.00	0.00	0.24	0.22	0.36	0.03	0.09	0.27	0.47	0.59	0.11	0.00	0.19	0.41	0.35	0.33	0.00	0.09
108	070593	1900	6	0.76	0.75	0.76	0.91	0.86	0.46	0.13	0.56	0.27	0.15	0.08	0.05	0.15	0.05	0.06	0.12	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00
109	070793	0700	11	0.57	0.43	0.35	0.70	0.41	0.22	0.33	0.50	0.39	0.38	0.28	0.16	0.49	0.62	0.41	0.49	0.21	0.51	0.66	0.62	0.39	0.39	0.43	0.52	0.61
110	070793	2100	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
111	070993	2000	13	0.63	0.60	0.44	0.64	0.55	0.35	0.34	0.54	0.49	0.36	0.34	0.37	0.30	0.42	0.38	0.41	0.27	0.35	0.48	0.44	0.36	0.28	0.46	0.54	0.48
112	07 1093	1700	9	1.21	1.01	0.56	0.76	0.75	0.77	0.99	0.64	1.54	2.19	2.57	1.62	1.30	1.44	1.53	1.75	1.97	0.56	0.52	0.63	0.68	0.32	0.75	0.00	0.12
113	07 11 93	0700	4	0.08	0.08	0.07	0.08	0.05	0.10	0.03	0.08	0.07	0.04	0.00	0.00	0.13	0.06	0.06	0.00	0.00	0.08	0.00	0.00	0.00	0.09	0.00	0.00	0.00
114	071293	0700	6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.07	0.00	0.00	0.00

Note: *Duration specified in hours. Values in boldface type exceed one-year or more recurrence frequency.

Table V-2. (Continued)

Storm	Date	Hour	Duration*	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
115	071393	1400	7	1.09	1.55	1.06	1.33	1.31	0.68	1.80	1.41	0.45	0.33	0.71	2.22	0.22	0.11	0.32	1.67	1.30	0.21	0.14	0.16	0.42	0.57	0.74	0.19	0.30
116	071593	0500	12	0.08	0.00	0.09	0.11	0.18	0.18	0.17	0.25	0.28	0.30	0.24	0.19	0.34	0.29	0.24	0.24	0.25	0.31	0.26	0.20	0.20	0.39	0.28	0.79	0.91
117	071593	2100	12	0.10	0.08	0.07	0.16	0.12	0.09	0.10	0.23	0.21	0.16	0.09	0.12	0.42	0.12	0.02	0.00	0.10	0.82	0.12	0.13	0.11	0.10	0.02	0.42	0.70
118	071693	1900	14	1.09	1.14	0.96	0.52	0.27	0.77	3.07	0.09	0.06	0.00	0.00	0.46	0.00	0.00	0.00	0.10	0.16	0.00	0.00	0.05	0.00	0.00	0.00	0.11	0.08
119	071893	1500	6	0.61	0.52	1.56	0.71	1.10	1.27	0.97	0.53	0.34	1.26	1.58	0.87	0.62	1.48	1.14	0.87	0.48	0.36	1.28	1.13	0.69	0.71	0.30	1.00	0.95
120	072093	1600	16	0.39	0.42	0.41	0.44	0.70	0.66	0.60	0.29	0.36	0.29	0.37	0.32	0.40	0.29	0.31	0.27	0.11	0.55	0.29	0.14	0.43	0.09	0.12	0.66	0.29
121	072293	0500	10	0.60	0.43	0.45	0.69	0.74	0.78	0.39	0.68	0.84	0.78	0.55	0.51	0.89	0.83	0.68	0.57	0.54	1.29	0.73	0.67	0.63	0.64	0.50	1.14	0.96
122	072393	0400	14	1.95	2.37	2.62	1.81	1.66	1.72	1.13	1.30	1.03	0.85	0.87	0.81	1.53	1.03	0.94	0.82	1.04	3.37	2.67	1.35	0.89	0.66	0.70	1.82	2.19
123	072493	0400	6	1.00	1.13	1.02	1.19	0.92	0.77	0.78	1.03	1.18	0.75	0.55	0.58	1.79	0.93	0.63	0.45	0.37	1.64	1.73	1.51	1.16	0.72	0.24	1.96	2.12
124	072493	1300	6	0.05	0.10	0.11	0.19	0.08	0.09	0.15	0.07	0.08	0.04	0.15	0.25	0.13	0.06	0.40	0.47	0.57	0.18	0.21	0.36	0.68	0.77	0.50	0.51	0.45
125	072593	0400	5	0.00	0.06	0.00	0.05	0.05	0.03	0.08	0.05	0.00	0.05	0.07	0.07	0.13	0.08	0.05	0.08	0.07	0.00	0.07	0.08	0.06	0.05	0.08	0.08	0.12
126	072893	0500	6	0.06	0.07	0.08	0.00	0.09	0.05	0.09	0.19	0.31	0.21	0.39	0.54	0.32	0.51	0.07	0.11	0.09	0.08	0.00	0.01	0.06	0.00	0.00	0.09	0.04
127	073193	1400	II	0.36	0.31	0.22	0.87	0.69	0.27	0.34	0.93	2.08	0.10	0.55	0.24	1.01	1.85	1.43	0.86	0.32	0.80	1.41	1.58	1.71	1.51	0.88	0.62	0.81
128	080193	0500	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.00
129	080193	1800	5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.31	0.17	0.08	0.05	0.30	0.00	0.06	0.68	0.19	0.00	0.04	0.00	0.00
130	080393	1300	6	0.30	0.19	1.04	0.53	0.42	0.29	0.47	0.05	0.20	1.06	0.17	0.14	0.03	0.04	0.03	0.00	0.08	0.07	0.12	0.28	0.40	0.35	0.36	0.06	0.04
131	080593	2400	6	0.00	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.04	0.03	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00
132	080993	1700	3	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00
133	081093	0100	7	0.97	1.30	0.77	0.62	0.95	0.78	0.75	0.56	0.62	0.68	0.81	0.81	0.81	0.71	1.17	0.76	0.87	1.11	1.29	1.16	0.92	0.58	0.68	1.34	1.42
134	081193	2100	20	0.48	0.45	1.38	0.46	0.54	0.62	0.59	0.61	0.73	0.59	0.70	1.39	0.67	0.58	0.71	1.33	1.23	0.46	0.58	0.52	0.79	0.82	1.02	0.52	0.51
135	081593	2200	6	1.34	1.26	1.52	1.19	0.82	0.50	1.50	1.16	1.27	0.45	0.16	0.72	0.87	0.83	0.21	0.07	0.37	0.16	0.11	0.26	0.04	0.00	0.05	0.10	0.10
136	081693	1500	3	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00
137	081793	1700	3	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.08	0.10	0.00	0.00	0.00
138	081893	0800	5	0.25	0.07	0.00	0.31	0.37	0.10	0.08	0.74	0.66	0.45	0.17	0.05	0.36	0.96	0.44	0.39	0.06	0.07	0.34	0.85	0.77	1.06	0.06	0.00	0.00
139	081893	2100	2	0.04	0.02	0.04	0.05	0.03	0.07	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.04	0.04	0.04	0.04	0.00	0.00	0.00	0.00	0.00	0.00
140	081993	1200	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00
141	081993	1700	I	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.06	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
142	082293	0800	6	0.14	0.30	0.08	0.10	0.06	0.04	0.08	0.00	0.03	0.00	0.00	0.07	0.00	0.00	0.07	0.21	0.16	0.04	0.06	0.00	0.05	0.00	0.30	0.00	0.00
143	082393	1600	7	1.70	1.77	2.17	1.29	1.79	1.58	1.83	1.18	1.80	2.30	2.22	1.76	2.00	2.11	2.34	1.58	1.47	1.97	1.06	2.00	1.30	0.98	0.67	1.25	0.56
144	082593	0500	5	0.00	0.00	0.00	0.00	0.00	0.14	0.00	0.34	0.16	0.00	0.08	0.07	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.13	0.08
145	082893	0500	2	0.11	0.09	0.04	0.00	0.15	0.04	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
146	082893	1700	5	0.00	0.00	0.15	0.17	0.00	0.04	0.06	0.11	0.00	0.08	0.22	0.12	0.07	0.04	0.11	0.32	0.17	0.12	0.17	0.10	0.25	0.34	0.25	0.16	0.21
147	083093	1400	2	0.00	0.04	0.54	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
148	083093	2000	16	0.48	0.57	0.95	0.31	0.57	0.64	1.88	0.53	0.70	1.08	1.17	1.63	1.08	0.92	1.11	0.99	1.01	1.49	1.26	1.15	1.24	1.29	0.84	1.68	1.49
149	090293	0200	29	3.03	2.90	3.15	3.01	2.85	3.04	2.84	3.26	3.39	3.01	3.86	3.71	3.54	3.80	4.41	3.51	3.25	3.94	3.68	3.42	3.11	3.48	3.59	4.47	4.79
150	090593	2200	15	1.57	1.54	1.99	1.21	1.23	1.70	1.83	0.98	1.26	1.25	0.92	1.32	0.86	0.76	0.98	0.69	0.96	0.64	0.77	0.76	0.71	0.68	0.71	0.67	0.66
151	090793	2400	6	0.06	0.05	0.00	0.07	0.06	0.07	0.05	0.06	0.10	0.07	0.08	0.10	0.13	0.11	0.15	0.09	0.13	0.14	0.12	0.15	0.10	0.10	0.09	0.12	0.14

Note: *Duration specified in hours. Values in boldface type exceed one-year or more recurrence frequency.

Table V-2. (Continued)

Storm	Date	Hour	Duration*	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
152	091293	0300	6	0.03	0.07	0.18	0.06	0.05	0.07	0.15	0.06	0.12	0.20	0.37	0.17	0.12	0.04	0.21	0.15	0.19	0.28	0.36	0.35	0.35	0.31	0.32	0.21	0.15
153	091393	0600	36	3.69	4.78	5.47	3.86	4.01	5.82	5.14	3.57	5.10	6.21	5.63	5.45	6.44	6.61	6.02	4.92	5.38	6.36	6.86	5.25	5.17	5.05	4.14	6.81	6.38
154	092293	0700	14	0.18	0.22	0.11	0.30	0.26	0.23	0.27	0.33	0.39	0.41	0.41	0.34	0.42	0.40	0.38	0.33	0.40	0.44	0.42	0.49	0.36	0.49	0.60	0.63	0.66
155	092593	0600	13	0.95	1.16	0.95	0.85	1.20	1.13	1.06	0.81	0.75	1.08	1.27	1.18	0.61	0.76	0.99	1.07	1.16	0.87	0.74	0.87	0.86	1.05	1.15	0.81	0.94
156	092693	1600	4	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.05	0.08	0.00	0.00	0.00	0.00	0.04	0.05	0.03	0.00	0.06	0.07	0.00	0.08
157	100893	1400	17	0.85	1.35	1.01	0.99	0.89	0.81	0.79	0.84	0.62	0.56	0.81	0.69	0.63	0.69	0.94	0.78	0.77	1.06	1.22	1.15	1.15	1.11	1.38	0.51	0.35
158	101593	1600	31	2.09	2.33	1.89	1.96	1.98	1.82	1.94	1.93	1.91	1.56	1.52	2.11	1.82	1.56	2.26	1.66	1.98	1.35	1.74	1.75	1.33	1.29	1.30	1.12	1.21
159	101893	1400	10	0.09	0.08	0.03	0.10	0.04	0.00	0.02	0.06	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.05	0.05	0.05	0.10	0.04	0.00	0.00	0.00
160	102093	0900	14	0.28	0.26	0.34	0.22	0.26	0.29	0.40	0.29	0.18	0.34	0.36	0.44	0.22	0.29	0.40	0.43	0.47	0.22	0.31	0.38	0.45	0.41	0.37	0.19	0.22
161	110293	1600	8	0.06	0.00	0.12	0.00	0.05	0.08	0.08	0.00	0.00	0.07	0.07	0.09	0.06	0.06	0.11	0.08	0.10	0.00	0.00	0.10	0.06	0.13	0.10	0.00	0.05
162	II 1293	1400	8	0.45	0.49	0.37	0.42	0.36	0.44	0.23	0.41	0.42	0.40	0.30	0.28	0.36	0.32	0.34	0.21	0.25	0.32	0.33	0.24	0.25	0.32	0.42	0.41	0.37
163	II 1393	2000	20	0.51	0.61	0.59	0.66	0.57	0.59	0.65	0.61	0.73	0.60	0.70	0.83	0.77	0.69	0.74	0.84	0.93	0.71	0.89	0.75	0.89	0.89	0.93	0.91	0.86
164	11 1693	2000	16	0.47	0.52	0.69	0.54	0.51	0.63	0.68	0.67	0.69	0.72	0.58	0.70	0.70	0.83	0.67	0.63	0.73	0.77	0.91	0.77	0.80	0.89	0.74	0.91	0.69
165	112493	0100	11	0.16	0.15	0.11	0.17	0.10	0.09	0.10	0.13	0.10	0.10	0.08	0.16	0.11	0.08	0.09	0.08	0.11	0.11	0.13	0.05	0.06	0.09	0.08	0.12	0.09
166	112493	1700	45	0.58	0.71	0.59	0.52	0.61	0.64	0.55	0.55	0.48	0.55	0.55	0.42	0.60	0.52	0.43	0.66	0.70	0.66	0.61	0.57	0.62	0.58	0.63	0.74	0.68
167	112793	1000	4	0.05	0.00	0.02	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.08	0.05	0.04	0.01	0.06	0.10	0.00	0.03	0.00	0.00	0.06	0.07	0.04	0.00	0.00
168	112793	2000	11	0.07	0.06	0.09	0.09	0.08	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.08	0.02	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00
169	120193	1900	15	0.34	0.39	0.25	0.28	0.23	0.19	0.28	0.23	0.27	0.26	0.28	0.26	0.24	0.28	0.23	0.25	0.34	0.23	0.33	0.28	0.22	0.33	0.48	0.27	0.32
170	120393	1300	3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
171	120393	2000	10	0.14	0.23	0.12	0.18	0.17	0.14	0.13	0.13	0.12	0.10	0.18	0.19	0.16	0.15	0.10	0.17	0.16	0.13	0.17	0.12	0.12	0.19	0.20	0.11	0.08
172	121393	0100	4	0.04	0.08	0.00	0.09	0.06	0.03	0.00	0.00	0.05	0.06	0.00	0.00	0.03	0.07	0.05	0.00	0.00	0.05	0.07	0.03	0.02	0.00	0.00	0.05	0.04
173	121393	0900	42	0.65	0.62	0.47	0.38	0.42	0.32	0.51	0.45	0.45	0.47	0.45	0.49	0.46	0.36	0.48	0.58	0.46	0.60	0.68	0.57	0.57	0.60	0.66	0.60	0.56
174	121793	2200	5	0.04	0.04	0.05	0.00	0.04	0.05	0.09	0.00	0.00	0.08	0.06	0.08	0.00	0.04	0.04	0.09	0.14	0.05	0.04	0.03	0.08	0.16	0.18	0.00	0.04
175	122493	1900	12	0.13	0.15	0.06	0.08	0.08	0.00	0.08	0.05	0.12	0.00	0.16	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.10	0.12	0.00
176	123093	2400	I	0.00	0.04	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
177	123193	2200	3	0.00	0.00	0.00	0.00	0.00	0.03	0.04	0.00	0.00	0.04	0.06	0.04	0.00	0.00	0.02	0.05	0.00	0.00	0.04	0.00	0.00	0.06	0.00	0.00	0.00
178	010294	2200	II	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.11	0.08	0.00	0.00	0.00	0.13	0.10	0.06	0.00	0.00	0.10	0.18	0.10	0.09	0.00	0.00	0.23	0.18
179	011094	1000	12	0.25	0.15	0.23	0.17	0.22	0.17	0.23	0.27	0.25	0.18	0.28	0.12	0.15	0.20	0.19	0.16	0.20	0.13	0.21	0.18	0.17	0.23	0.29	0.22	0.22
180	011394	1100	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.07	0.00	0.03	0.00	0.07	0.02	0.11	0.00	0.06	0.00	0.00	0.00	0.00
181	011694	1200	6	0.00	0.00	0.06	0.00	0.00	0.00	0.07	0.00	0.05	0.05	0.10	0.06	0.08	0.06	0.04	0.00	0.06	0.00	0.03	0.03	0.05	0.08	0.09	0.00	0.09
182	012594	0600	8	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.03	0.07	0.10	0.07	0.07	0.06	0.11	0.08	0.19	0.10	0.05	0.04	0.06	0.00	0.00	0.05	0.05	0.00
183	012594	1900	1	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
184	012694	2300	23	0.46	0.39	0.68	0.20	0.45	0.55	0.67	0.17	0.41	0.56	0.66	0.77	0.39	0.38	0.58	0.72	0.76	0.33	0.56	0.55	0.57	0.69	0.59	0.53	0.57
185	012994	1500	20	0.10	0.08	0.00	0.00	0.08	0.12	0.27	0.00	0.09	0.00	0.00	0.17	0.06	0.07	0.04	0.00	0.21	0.00	0.00	0.00	0.12	0.06	0.08	0.06	0.00
186	020794	2000	21	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.01	0.05	0.00	0.00	0.00	0.01	0.00	0.10	0.10	0.00	0.22	0.07	0.10	0.05	0.04	0.08	0.14
187	021294	1100	5	0.05	0.00	0.00	0.00	0.03	0.04	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
188	021994	0400	30	0.80	0.97	0.97	0.69	0.84	0.91	0.67	0.67	0.85	0.85	0.92	0.65	0.80	0.88	0.77	0.68	0.64	0.67	0.70	0.75	0.62	0.74	0.55	0.79	0.63
189	022294	1500	33	0.39	0.33	0.65	0.49	0.53	0.34	0.41	0.41	0.61	0.56	0.31	0.53	0.62	0.74	0.57	0.38	0.53	0.55	0.72	0.69	0.42	0.39	0.29	0.57	0.94

Note: *Duration specified in hours. Values in boldface type exceed one-year or more recurrence frequency.

Table V-2. (Continued)

<i>Storm</i>	<i>Date</i>	<i>Hour</i>	<i>Duration*</i>	<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>	<i>5</i>	<i>6</i>	<i>7</i>	<i>8</i>	<i>9</i>	<i>10</i>	<i>11</i>	<i>12</i>	<i>13</i>	<i>14</i>	<i>15</i>	<i>16</i>	<i>17</i>	<i>18</i>	<i>19</i>	<i>20</i>	<i>21</i>	<i>22</i>	<i>23</i>	<i>24</i>	<i>25</i>
190	022494	1700	23	0.32	0.28	0.20	0.26	0.30	0.33	0.29	0.28	0.33	0.35	0.32	0.15	0.27	0.23	0.24	0.19	0.22	0.23	0.18	0.21	0.19	0.35	0.44	0.12	0.18
191	022894	2000	7	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.04	0.06	0.00	0.05	0.07	0.08	0.07	0.06	0.05	0.06	0.09	0.08	0.07	0.10	0.09	0.18	0.20
192	030694	2300	9	0.17	0.21	0.22	0.27	0.24	0.34	0.41	0.27	0.36	0.47	0.40	0.36	0.37	0.32	0.35	0.31	0.29	0.40	0.36	0.33	0.29	0.33	0.24	0.38	0.44
193	03 1294	2400	6	0.05	0.06	0.07	0.05	0.04	0.05	0.04	0.00	0.03	0.04	0.05	0.05	0.00	0.06	0.03	0.14	0.05	0.06	0.12	0.08	0.00	0.06	0.05	0.06	0.07
194	03 1394	1500	3	0.04	0.00	0.05	0.00	0.04	0.06	0.05	0.00	0.00	0.03	0.00	0.02	0.00	0.03	0.04	0.00	0.00	0.05	0.00	0.00	0.06	0.03	0.00	0.00	0.04
195	03 2194	0100	3	0.04	0.04	0.08	0.05	0.03	0.04	0.03	0.00	0.03	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00
196	032394	1900	4	0.00	0.08	0.08	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
197	032694	0600	21	0.43	0.47	0.40	0.43	0.45	0.41	0.54	0.38	0.43	0.47	0.60	0.54	0.52	0.39	0.56	0.60	0.65	0.54	0.61	0.53	0.62	0.70	0.73	0.68	0.57
198	040294	1500	8	0.30	0.27	0.31	0.26	0.26	0.27	0.24	0.25	0.23	0.26	0.23	0.24	0.27	0.27	0.25	0.23	0.23	0.26	0.17	0.20	0.16	0.20	0.17	0.19	0.20
199	040594	1500	6	0.03	0.06	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.04	0.01	0.04	0.04	0.05	0.08	0.07	0.05	0.06	0.03	0.04	0.00	0.00	0.04	0.07	0.08
200	040994	1500	17	0.56	0.62	0.47	0.41	0.46	0.35	0.34	0.44	0.37	0.37	0.37	0.42	0.40	0.46	0.41	0.50	0.41	0.43	0.50	0.41	0.36	0.42	0.39	0.42	0.43
201	041094	2300	38	1.62	2.52	1.93	1.68	1.82	1.74	2.07	1.64	1.95	2.01	2.17	2.06	1.68	1.58	2.04	2.16	2.06	1.97	2.57	1.95	1.84	2.30	2.24	2.44	2.64
202	041294	2300	9	0.12	0.07	0.04	0.07	0.03	0.06	0.00	0.03	0.04	0.05	0.00	0.06	0.00	0.06	0.03	0.04	0.00	0.05	0.04	0.00	0.00	0.00	0.00	0.00	0.03
203	041594	0300	8	0.50	0.36	0.36	0.32	0.32	0.32	0.46	0.34	0.33	0.31	0.35	0.51	0.35	0.36	0.38	0.42	0.39	0.32	0.29	0.48	0.48	0.59	0.42	0.34	0.37
204	042094	1900	17	0.12	0.09	0.17	0.13	0.12	0.12	0.15	0.18	0.20	0.23	0.14	0.16	0.35	0.31	0.28	0.22	0.20	0.80	0.75	0.53	0.45	0.35	0.26	1.07	1.12
205	042594	1800	6	0.21	0.19	0.12	0.14	0.14	0.07	0.06	0.06	0.11	0.09	0.08	0.09	0.10	0.08	0.07	0.03	0.02	0.12	0.05	0.03	0.01	0.00	0.03	0.21	0.05
206	042694	0400	4	0.04	0.02	0.01	0.05	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
207	042694	1800	5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.13	0.11	0.00	0.00	0.00	0.20	0.35	0.11	0.00	0.00
208	042794	1700	22	0.58	0.81	0.61	0.66	0.67	0.53	0.65	0.73	0.68	0.68	0.70	0.82	0.64	0.61	0.70	0.83	0.81	0.64	0.87	0.74	0.77	0.66	0.66	0.74	0.75
209	042994	1700	22	0.64	0.84	0.66	0.74	0.65	0.66	0.68	0.71	0.71	0.69	0.67	0.82	0.68	0.67	0.65	0.66	0.74	0.67	0.92	0.79	0.75	0.70	0.68	0.75	0.75
210	050594	1700	43	0.91	1.10	1.06	1.07	0.86	0.97	1.00	1.27	1.45	1.63	1.67	1.70	1.46	1.34	1.63	1.57	1.67	1.17	1.56	1.15	1.10	1.06	1.30	1.43	1.50
211	050994	1900	4	0.00	0.00	0.05	0.00	0.03	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
212	05 11 94	1500	5	0.19	0.27	0.21	0.07	0.16	0.07	0.08	0.30	0.21	0.16	0.20	0.30	0.33	0.19	0.57	0.36	0.15	0.32	0.41	0.52	0.27	0.23	0.42	0.25	0.15
213	051494	0400	17	0.36	0.80	0.45	0.41	0.46	0.38	0.50	0.42	0.40	0.50	0.47	0.39	0.35	0.27	0.45	0.38	0.46	0.31	0.55	0.32	0.33	0.43	0.45	0.35	0.40
214	05 2494	1500	12	0.90	1.08	1.08	1.57	1.53	1.63	1.21	0.87	0.60	0.81	0.69	1.33	0.95	0.66	0.43	0.40	1.11	0.56	0.79	0.72	0.47	0.46	0.51	2.83	1.87
215	05 2594	1800	7	0.03	0.06	0.11	0.07	0.09	0.06	0.11	0.03	0.06	0.09	0.15	0.16	0.10	0.11	0.14	0.15	0.17	0.10	0.13	0.08	0.12	0.15	0.14	0.07	0.06
216	053194	1400	7	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.10	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00
217	060194	1700	21	0.64	0.59	0.53	0.72	0.75	0.61	0.61	0.84	0.57	0.74	0.74	0.58	1.13	0.79	0.79	0.66	0.67	0.88	0.97	0.81	0.77	0.82	0.57	1.06	1.01
218	060594	1100	7	0.05	0.00	0.06	0.06	0.06	0.02	0.02	0.24	0.15	0.47	0.11	0.03	0.12	0.15	0.26	0.10	0.16	0.19	0.26	0.27	0.28	0.32	0.25	0.11	0.21
219	060594	2400	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.00
220	060794	1900	21	0.18	0.20	0.09	0.22	0.19	0.18	0.17	0.24	0.38	0.55	0.41	0.47	1.05	1.17	1.04	0.93	0.68	1.21	1.62	1.50	1.03	1.05	0.99	0.79	0.96
221	06 11 94	2400	3	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.06	0.17	0.16	0.16	0.15	0.03	0.17	0.06	0.10	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
222	061294	1100	8	0.08	0.09	0.39	0.18	0.15	0.31	0.28	0.23	0.42	0.70	0.36	0.70	0.43	1.16	0.76	0.74	0.47	0.17	0.44	0.80	0.88	0.49	0.44	0.60	0.41
223	061494	1600	3	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
224	061694	1600	5	0.09	0.00	0.00	0.13	0.24	0.00	0.00	0.00	0.71	0.24	0.00	0.00	0.31	1.08	0.07	0.00	0.06	0.16	0.34	0.96	0.07	0.05	0.20	0.58	0.46
225	062094	1500	7	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.13	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.04	0.00
226	062394	0500	5	0.23	0.21	0.06	0.13	0.30	0.05	0.10	0.15	0.21	0.09	0.12	0.00	0.00	0.03	0.13	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00
227	062394	1300	20	0.23	0.32	0.29	0.33	0.30	0.19	0.23	0.16	0.25	0.24	0.13	0.25	0.12	0.24	0.24	0.28	0.35	0.26	0.32	0.23	0.29	0.32	0.30	0.37	0.21

Note: *Duration specified in hours. Values in boldface type exceed one-year or more recurrence frequency.

Table V-2. (Continued)

<i>Storm</i>	<i>Date</i>	<i>Hour</i>	<i>Duration*</i>	<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>	<i>5</i>	<i>6</i>	<i>7</i>	<i>8</i>	<i>9</i>	<i>10</i>	<i>11</i>	<i>12</i>	<i>13</i>	<i>14</i>	<i>15</i>	<i>16</i>	<i>17</i>	<i>18</i>	<i>19</i>	<i>20</i>	<i>21</i>	<i>22</i>	<i>23</i>	<i>24</i>	<i>25</i>
228	062594	1900	6	0.00	0.00	0.04	0.09	0.08	0.06	0.04	0.07	0.05	0.05	0.05	0.04	0.22	0.29	0.52	0.11	0.09	0.10	0.11	0.10	0.00	0.00	0.12	0.12	0.13
229	062694	0500	17	0.29	0.18	0.58	0.09	0.31	0.67	0.50	0.16	0.24	0.64	0.41	0.29	0.22	0.18	0.36	0.50	0.26	0.66	0.41	0.31	0.62	0.89	0.47	0.09	0.07
230	070294	1100	11	0.58	0.65	0.39	0.76	0.59	0.54	0.71	0.72	0.66	1.14	0.86	0.95	1.02	1.57	1.06	1.09	0.77	1.76	1.99	1.38	0.89	0.79	1.32	1.66	1.70
231	070494	0500	6	0.18	0.29	0.28	0.27	0.34	0.45	0.06	0.20	0.64	0.40	0.30	0.16	0.16	0.23	0.02	0.11	0.09	0.15	0.24	0.11	0.10	0.05	0.00	0.22	0.18
232	070794	1500	7	0.06	0.26	0.23	0.00	0.00	0.32	0.00	0.27	0.16	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.32	0.34	0.07	0.00	0.00	0.06	0.00
233	071694	1700	8	0.24	0.25	0.77	0.09	0.05	0.45	0.57	0.27	0.30	0.30	0.26	0.54	1.29	0.63	0.28	0.17	0.29	1.69	2.62	0.49	0.38	0.22	0.27	0.89	2.02
234	071994	0400	7	1.85	1.61	0.61	1.36	2.02	2.21	1.15	0.00	0.04	2.06	2.58	2.19	0.14	0.11	0.28	1.59	2.78	0.05	0.09	0.08	0.05	0.57	1.86	0.03	0.04
235	072094	0400	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00
236	072094	1500	10	0.32	0.34	0.32	0.32	0.38	0.46	0.85	0.32	0.44	0.48	0.28	0.37	0.80	0.55	0.61	0.52	0.36	0.58	0.48	0.56	0.56	0.38	0.31	0.66	0.28
237	072194	2200	2	0.00	0.00	0.00	0.00	0.04	0.00	0.09	0.08	0.06	0.08	0.09	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
238	072494	1500	3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.03	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
239	080194	1300	11	0.37	0.28	0.00	0.24	0.09	0.18	0.00	0.00	0.00	0.45	0.04	0.00	0.00	0.06	0.04	0.00	0.00	0.02	0.13	0.20	0.20	0.14	0.00	0.77	0.04
240	080394	1500	19	0.58	0.59	0.67	0.60	0.70	0.69	0.69	0.87	1.02	0.86	1.02	0.83	1.54	1.33	0.80	0.77	0.95	1.75	1.27	0.73	0.69	0.82	0.33	1.32	1.27
241	080494	1500	7	0.13	0.08	0.49	0.28	0.25	0.15	0.24	0.08	0.22	0.38	0.22	0.10	0.16	0.13	0.15	0.22	0.12	0.15	0.25	0.08	0.08	0.10	0.13	0.05	0.00
242	081394	1500	4	0.00	0.00	0.77	0.19	0.59	0.77	0.66	0.00	0.06	0.20	0.43	0.42	0.43	0.33	0.48	0.24	0.25	0.79	0.75	0.60	0.51	0.51	0.41	0.24	0.35
243	081694	1600	5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
244	081994	2100	9	0.05	0.07	0.06	0.22	0.23	0.13	0.23	0.00	0.00	0.12	0.06	0.08	0.14	0.16	0.11	0.10	0.03	0.27	0.22	0.25	0.20	0.30	0.33	0.24	0.12
245	082694	0800	5	0.50	0.17	0.32	0.68	0.46	0.35	0.35	0.07	0.08	0.36	0.27	0.79	0.05	0.04	0.32	1.01	0.66	0.76	0.79	0.72	0.39	0.79	0.81	0.21	0.24
246	082894	1200	7	0.13	0.16	0.22	0.30	0.20	0.20	0.17	0.21	0.22	0.28	0.24	0.22	0.12	0.13	0.14	0.18	0.27	0.10	0.10	0.12	0.06	0.12	0.21	0.17	0.19
247	082994	1800	3	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00
248	082994	2400	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
249	083094	0600	8	1.07	1.29	0.94	1.08	1.10	1.16	1.08	1.09	1.24	1.23	1.27	1.12	1.30	1.28	1.21	1.27	1.11	1.31	1.53	1.38	1.24	1.24	1.14	1.73	1.83
250	083094	2300	2	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.13	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
251	090494	1200	14	0.22	0.28	0.23	0.23	0.34	0.25	0.20	0.23	0.28	0.30	0.26	0.20	0.56	0.26	0.50	0.35	0.37	0.24	0.36	0.40	0.47	0.42	0.45	0.12	0.13
252	092194	2100	11	0.28	0.34	0.24	0.25	0.33	0.31	0.27	0.24	0.28	0.34	0.28	0.29	0.27	0.21	0.26	0.26	0.14	0.25	0.16	0.20	0.28	0.28	0.25	0.30	0.18
253	092294	1200	17	0.47	0.74	0.86	0.45	0.40	0.74	0.84	0.35	0.47	0.62	0.65	0.82	0.44	0.48	0.61	0.58	0.79	0.31	0.39	0.47	0.59	0.65	0.72	0.21	0.26
254	092594	0500	7	0.07	0.05	0.00	0.08	0.02	0.05	0.00	0.00	0.04	0.00	0.05	0.00	0.11	0.06	0.13	0.04	0.00	0.17	0.15	0.12	0.06	0.00	0.00	0.17	0.18
255	092594	1500	7	0.00	0.00	0.26	0.00	0.00	0.09	1.01	0.12	0.14	0.03	0.37	0.89	0.16	0.06	0.00	0.56	0.30	0.00	0.07	0.00	0.00	0.77	0.07	0.00	0.00
256	092694	0300	7	0.36	0.31	0.08	0.16	0.22	0.27	0.27	0.04	0.00	0.08	0.13	0.31	0.00	0.04	0.00	0.14	0.18	0.06	0.06	0.00	0.00	0.00	0.00	0.07	0.07
257	100694	0300	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08
258	100794	0800	34	1.51	1.59	1.13	1.73	1.51	1.53	1.36	1.57	1.80	1.80	1.45	1.29	2.14	2.12	2.01	1.32	1.21	2.33	2.48	2.01	1.42	1.38	1.35	2.55	2.23
259	101894	1300	10	0.09	0.09	0.11	0.11	0.10	0.10	0.11	0.16	0.06	0.18	0.15	0.13	0.10	0.09	0.15	0.16	0.16	0.11	0.11	0.11	0.14	0.20	0.07	0.13	0.09
260	102294	1900	2	0.13	0.07	0.19	0.06	0.11	0.08	0.13	0.06	0.05	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.04	0.18	0.21	0.05	0.00	0.00	0.00
261	102494	0600	5	0.00	0.00	0.00	0.06	0.00	0.05	0.06	0.00	0.00	0.06	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.06	0.06	0.00	0.09	0.13
262	102594	2300	3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.06	0.00	0.00	0.00	0.02
263	103094	2400	22	1.28	1.77	1.43	1.71	1.48	1.31	1.21	1.36	1.57	1.44	1.33	1.41	1.45	1.41	1.51	1.15	1.40	1.44	1.80	1.31	1.36	1.24	1.12	1.30	1.38
264	110394	1500	3	0.20	0.21	0.31	0.10	0.08	0.10	0.12	0.03	0.06	0.16	0.22	0.45	0.08	0.19	0.18	0.24	0.46	0.09	0.21	0.15	0.17	0.38	0.56	0.11	0.31
265	110494	0200	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.08	0.00	0.00

Note: *Duration specified in hours. Values in boldface type exceed one-year or more recurrence frequency.

Table V-2. (Continued)

<i>Storm</i>	<i>Date</i>	<i>Hour</i>	<i>Duration*</i>	<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>	<i>5</i>	<i>6</i>	<i>7</i>	<i>8</i>	<i>9</i>	<i>10</i>	<i>11</i>	<i>12</i>	<i>13</i>	<i>14</i>	<i>15</i>	<i>16</i>	<i>17</i>	<i>18</i>	<i>19</i>	<i>20</i>	<i>21</i>	<i>22</i>	<i>23</i>	<i>24</i>	<i>25</i>
266	110494	0800	6	0.45	0.21	0.25	0.28	0.19	0.20	0.21	0.26	0.31	0.16	0.23	0.20	0.23	0.20	0.33	0.31	0.27	0.24	0.31	0.36	0.32	0.25	0.17	0.25	0.26
267	110494	2000	27	1.01	1.27	0.83	1.33	1.01	0.81	0.78	1.21	1.02	0.82	0.71	0.70	1.15	0.73	0.82	0.77	0.70	1.89	1.25	0.88	0.85	0.78	0.63	1.68	1.94
268	110994	0100	16	0.12	0.18	0.12	0.19	0.15	0.11	0.11	0.23	0.21	0.22	0.18	0.26	0.27	0.22	0.26	0.41	0.44	0.17	0.35	0.35	0.53	0.60	0.63	0.29	0.38
269	111394	2000	7	0.10	0.13	0.21	0.12	0.08	0.14	0.24	0.11	0.06	0.12	0.17	0.21	0.05	0.06	0.10	0.18	0.18	0.06	0.09	0.09	0.16	0.18	0.15	0.06	0.04
270	112094	0300	8	0.21	0.22	0.15	0.19	0.20	0.19	0.16	0.20	0.16	0.20	0.17	0.13	0.17	0.09	0.18	0.18	0.15	0.22	0.25	0.19	0.17	0.16	0.14	0.20	0.24
271	112094	1900	10	0.62	0.59	0.39	0.61	0.48	0.42	0.48	0.53	0.52	0.51	0.44	0.49	0.52	0.55	0.52	0.51	0.53	0.57	0.61	0.51	0.56	0.66	0.46	0.66	0.61
272	112794	0300	11	1.00	1.08	0.79	0.84	1.06	0.75	0.84	0.78	0.96	0.79	0.82	0.69	0.86	0.60	0.67	0.72	0.66	0.63	0.71	0.62	0.62	0.58	0.58	0.56	0.77
273	113094	0900	2	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
274	120294	1900	8	0.06	0.08	0.16	0.07	0.04	0.10	0.10	0.04	0.01	0.11	0.06	0.05	0.04	0.09	0.04	0.07	0.02	0.03	0.05	0.06	0.07	0.04	0.00	0.05	0.04
275	120394	0700	4	0.00	0.00	0.00	0.00	0.00	0.03	0.04	0.00	0.00	0.03	0.04	0.04	0.01	0.00	0.02	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.03	0.04
276	120694	0400	26	1.71	1.97	1.90	1.83	1.92	1.79	1.84	1.68	1.80	1.88	1.76	1.87	1.75	1.83	1.66	1.68	1.51	1.69	1.84	1.57	1.37	1.39	1.46	1.49	1.41
277	120894	1700	12	0.21	0.29	0.26	0.22	0.23	0.22	0.24	0.17	0.25	0.23	0.21	0.17	0.24	0.23	0.21	0.19	0.17	0.29	0.21	0.17	0.19	0.16	0.15	0.21	0.20
278	121694	0100	12	0.34	0.35	0.21	0.26	0.26	0.31	0.26	0.20	0.20	0.27	0.21	0.26	0.22	0.17	0.24	0.27	0.29	0.31	0.29	0.28	0.29	0.29	0.37	0.24	0.29
279	122094	0300	4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.10	0.00	0.00	0.00	0.04	0.09	0.06	0.00	0.00
280	122094	1300	4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.08	0.04	0.03	0.00	0.00	0.00	0.03	0.07
281	123194	2300	2	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.06	0.00	0.02	0.00	0.00	0.00	0.05	0.05	0.00	0.00	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00
282	010695	0100	17	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.02	0.04	0.00	0.16	0.00	0.05	0.05	0.10	0.15	0.13	0.03	0.11	0.03	0.13	0.10	0.10	0.11	0.06
283	011395	0400	30	1.10	2.06	1.55	1.52	1.48	1.37	1.52	1.51	1.56	1.46	1.19	1.86	1.57	1.74	1.65	1.53	1.88	1.60	2.18	1.62	1.68	1.56	1.63	1.73	1.65
284	011795	0500	3	0.00	0.04	0.00	0.03	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.03	0.00	0.00	0.00
285	011895	2000	26	0.34	0.80	0.73	0.97	0.63	0.79	0.92	0.77	0.94	0.77	0.75	0.82	0.87	0.89	1.03	0.92	0.94	0.68	1.03	0.84	0.85	0.66	0.90	0.73	0.79
286	012795	0400	27	0.33	0.42	0.27	0.37	0.37	0.30	0.33	0.29	0.28	0.43	0.33	0.34	0.48	0.27	0.52	0.37	0.35	0.55	0.76	0.55	0.48	0.47	0.47	0.42	0.50
287	020395	0200	14	0.12	0.12	0.07	0.15	0.15	0.13	0.19	0.19	0.21	0.20	0.15	0.18	0.23	0.24	0.21	0.17	0.21	0.19	0.25	0.27	0.17	0.19	0.12	0.33	0.41
288	021495	1400	5	0.03	0.04	0.03	0.00	0.03	0.04	0.00	0.03	0.05	0.05	0.05	0.00	0.06	0.00	0.04	0.04	0.04	0.03	0.04	0.03	0.00	0.06	0.06	0.04	0.03
289	022695	1600	15	0.38	0.48	0.35	0.36	0.34	0.29	0.41	0.33	0.37	0.37	0.41	0.48	0.38	0.37	0.41	0.33	0.32	0.41	0.51	0.45	0.34	0.34	0.29	0.37	0.45
290	030495	2200	10	0.44	0.53	0.48	0.38	0.42	0.45	0.46	0.44	0.43	0.47	0.49	0.45	0.47	0.31	0.48	0.44	0.43	0.54	0.56	0.46	0.44	0.47	0.49	0.44	0.41
291	030695	2000	17	0.56	0.85	0.79	0.57	0.67	0.73	0.79	0.66	0.78	0.77	0.88	1.06	0.75	0.90	0.83	1.13	1.19	0.74	1.09	0.78	1.22	1.13	1.09	0.75	0.70
292	032095	0300	6	0.25	0.24	0.17	0.27	0.21	0.20	0.26	0.21	0.21	0.16	0.24	0.23	0.24	0.08	0.23	0.23	0.23	0.15	0.18	0.17	0.40	0.23	0.29	0.26	0.23
293	032295	1800	2	0.02	0.00	0.05	0.00	0.00	0.10	0.06	0.02	0.00	0.06	0.07	0.09	0.05	0.03	0.04	0.05	0.09	0.03	0.00	0.06	0.03	0.00	0.00	0.00	0.00
294	032695	0400	4	0.09	0.08	0.07	0.04	0.07	0.05	0.06	0.02	0.02	0.07	0.07	0.08	0.06	0.03	0.04	0.06	0.05	0.04	0.07	0.06	0.06	0.04	0.05	0.06	0.06
295	032695	2100	10	0.31	0.39	0.25	0.24	0.33	0.33	0.35	0.28	0.26	0.24	0.31	0.34	0.22	0.17	0.23	0.34	0.27	0.35	0.42	0.37	0.34	0.33	0.31	0.34	0.39
296	040395	0900	6	0.13	0.17	0.21	0.17	0.23	0.29	0.36	0.19	0.28	0.38	0.39	0.43	0.33	0.31	0.37	0.29	0.26	0.28	0.29	0.29	0.25	0.17	0.20	0.24	0.21
297	040695	1200	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.13
298	040695	1800	8	0.00	0.00	0.00	0.05	0.03	0.00	0.03	0.00	0.02	0.02	0.03	0.05	0.00	0.03	0.00	0.00	0.03	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.04
299	040795	2100	11	0.98	1.05	1.09	0.91	0.99	1.34	1.09	1.13	1.15	0.98	0.94	0.94	0.92	0.85	0.78	0.65	0.83	0.53	0.75	0.72	0.74	0.47	0.42	0.50	0.65
300	040995	0100	7	0.55	0.76	0.55	0.78	0.65	0.59	0.65	0.79	0.63	0.63	0.81	0.82	0.68	0.71	0.84	0.67	0.64	0.78	0.75	0.61	0.42	0.31	0.30	0.54	0.48
301	040995	2300	9	0.63	0.60	0.57	0.63	0.40	0.53	0.42	0.31	0.44	0.44	0.33	0.46	0.57	0.42	0.39	0.33	0.28	0.27	0.24	0.09	0.10	0.11	0.05	0.06	0.10
302	041095	1300	2	0.12	0.08	0.05	0.11	0.04	0.05	0.02	0.16	0.00	0.02	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.11	0.00
303	041095	2000	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.03

Note: *Duration specified in hours. Values in boldface type exceed one-year or more recurrence frequency.

Table V-2. (Continued)

<i>Storm</i>	<i>Date</i>	<i>Hour</i>	<i>Duration*</i>	<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>	<i>5</i>	<i>6</i>	<i>7</i>	<i>8</i>	<i>9</i>	<i>10</i>	<i>11</i>	<i>12</i>	<i>13</i>	<i>14</i>	<i>15</i>	<i>16</i>	<i>17</i>	<i>18</i>	<i>19</i>	<i>20</i>	<i>21</i>	<i>22</i>	<i>23</i>	<i>24</i>	<i>25</i>
304	04 11 95	1000	11	0.50	0.44	0.28	0.38	0.48	0.39	0.24	0.29	0.43	0.45	0.39	0.25	0.34	0.40	0.46	0.41	0.32	0.40	0.44	0.38	0.42	0.41	0.36	0.38	0.42
305	041595	1400	3	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.02	0.00	0.05	0.00	0.05	0.04	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00
306	041695	2100	4	0.12	0.18	0.10	0.52	0.57	0.37	0.29	0.46	0.39	0.43	0.40	0.42	0.32	0.13	0.13	0.35	0.34	0.39	0.39	0.23	0.43	0.26	0.37	0.22	0.30
307	041795	2000	11	0.81	0.95	0.92	0.69	0.75	0.85	0.95	0.64	0.55	0.74	0.88	0.91	0.54	0.43	0.68	0.84	0.93	0.56	0.69	0.68	0.77	0.63	0.88	0.54	0.62
308	042095	0200	7	0.32	0.32	0.30	0.32	0.32	0.33	0.30	0.26	0.31	0.30	0.30	0.32	0.37	0.14	0.27	0.31	0.36	0.35	0.31	0.25	0.30	0.37	0.39	0.32	0.29
309	04 2095	2200	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.13	0.09
310	042395	1700	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
311	042495	1400	5	0.05	0.05	0.05	0.00	0.06	0.05	0.12	0.07	0.00	0.06	0.05	0.08	0.12	0.09	0.07	0.05	0.03	0.05	0.05	0.04	0.04	0.05	0.05	0.05	0.06
312	042695	0600	9	0.17	0.20	0.13	0.16	0.18	0.15	0.11	0.18	0.19	0.13	0.09	0.10	0.07	0.13	0.08	0.08	0.02	0.10	0.10	0.09	0.06	0.04	0.04	0.12	0.09
313	042695	2200	8	0.54	0.46	0.61	0.54	0.49	0.53	0.50	0.46	0.48	0.47	0.51	0.64	0.57	0.55	0.65	0.66	0.74	0.58	0.56	0.64	0.70	0.79	0.52	0.60	0.55
314	042995	1200	11	0.16	0.21	0.20	0.19	0.15	0.14	0.13	0.16	0.13	0.12	0.11	0.16	0.16	0.13	0.17	0.16	0.15	0.16	0.24	0.23	0.22	0.25	0.22	0.18	0.16
315	050395	1500	18	0.09	0.04	0.00	0.08	0.03	0.07	0.06	0.12	0.04	0.04	0.08	0.05	0.08	0.08	0.04	0.10	0.05	0.04	0.04	0.09	0.10	0.18	0.08	0.13	0.11
316	050795	1900	17	1.69	1.70	1.27	1.76	1.43	1.14	1.21	1.74	1.36	1.29	1.15	1.15	1.41	0.67	1.24	1.06	1.23	1.07	1.02	0.82	1.00	1.04	1.22	0.92	0.89
317	050895	1600	14	1.18	1.03	0.39	0.46	1.11	0.47	0.61	0.55	0.63	0.75	0.41	0.62	0.63	0.83	0.66	0.30	0.36	0.77	0.35	0.60	0.16	0.94	0.29	0.21	0.51
318	050995	1600	4	0.32	0.24	0.47	0.19	0.06	0.13	0.12	0.31	0.08	0.03	0.00	0.00	0.06	0.04	0.00	0.00	0.03	0.00	0.10	0.00	0.00	0.00	0.06	0.00	0.06
319	051095	0200	12	0.17	0.04	0.25	0.09	0.12	0.10	0.14	0.04	0.07	0.09	0.04	0.18	0.00	0.04	0.04	0.34	0.45	0.02	0.03	0.00	0.14	0.34	0.27	0.00	0.00
320	051295	2000	12	0.39	0.41	0.43	0.36	0.43	0.37	0.50	0.43	0.39	0.46	0.47	0.47	0.42	0.25	0.44	0.46	0.37	0.41	0.46	0.45	0.40	0.36	0.34	0.29	0.35
321	051395	1800	1	0.06	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
322	051695	0500	7	0.04	0.04	0.08	0.05	0.05	0.05	0.13	0.03	0.00	0.03	0.00	0.06	0.02	0.02	0.06	0.06	0.11	0.12	0.10	0.18	0.04	0.09	0.11	0.12	0.39
323	05 1695	1500	12	0.90	0.86	0.85	1.07	1.05	1.05	1.10	1.78	2.12	1.93	1.58	1.56	3.07	3.25	3.04	2.40	2.46	3.65	4.22	3.26	3.28	3.60	3.13	3.59	2.94
324	05 1795	0800	21	0.67	0.84	0.75	0.85	0.79	0.77	0.84	0.98	1.03	0.93	0.81	0.89	0.91	0.81	0.83	0.87	0.77	0.93	1.00	0.88	0.87	0.98	0.89	1.02	0.98
325	05 1895	1000	9	0.49	0.41	0.47	0.53	0.44	0.52	0.44	0.56	0.67	0.81	0.54	0.64	1.15	1.09	0.76	0.69	1.34	1.85	1.04	0.66	0.79	0.60	0.68	0.97	0.57
326	05 2395	1000	6	0.28	0.28	0.28	0.25	0.41	0.36	0.25	0.16	0.46	0.20	0.20	0.09	0.41	0.24	0.18	0.08	0.14	0.22	0.22	0.13	0.15	0.11	0.11	0.29	0.19
327	052395	1900	24	2.72	2.76	2.32	2.64	2.83	2.23	2.23	2.49	2.41	2.53	2.66	2.85	2.70	3.40	3.08	2.77	2.62	3.22	3.78	3.24	2.79	2.42	2.35	3.33	3.00
328	05 2695	2200	8	0.09	0.09	0.03	0.06	0.07	0.05	0.04	0.06	0.09	0.06	0.07	0.05	0.10	0.07	0.09	0.04	0.06	0.13	0.13	0.13	0.07	0.09	0.09	0.08	0.12
329	05 2795	1000	15	0.86	1.02	0.80	0.77	0.71	0.78	0.71	0.75	0.74	0.84	0.76	0.89	0.73	0.39	0.63	0.61	0.72	0.74	0.45	0.49	0.61	1.13	1.12	0.60	0.45
330	052895	0700	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00
331	060295	0800	8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.08	0.00	0.04	0.03	0.00	0.00	0.09	0.04	0.09	0.09	0.07	0.07	0.04	0.00	0.07
332	060895	0700	5	0.32	0.33	0.24	0.54	0.31	0.39	0.34	0.27	0.26	0.23	0.30	0.27	0.25	0.36	0.70	0.67	0.47	0.53	0.44	0.28	0.43	0.26	0.27	0.39	0.35
333	060995	0900	5	0.06	0.06	0.08	0.08	0.10	0.00	0.15	0.00	0.10	0.10	0.09	0.10	0.14	0.12	0.13	0.26	0.12	0.11	0.17	0.18	0.00	0.14	0.15	0.12	0.17
334	060995	2300	4	0.03	0.15	0.28	0.05	0.00	0.25	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00
335	06 11 95	1300	4	0.04	0.03	0.00	0.03	0.03	0.00	0.04	0.00	0.04	0.04	0.03	0.04	0.03	0.03	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.02	0.00	0.03	0.00
336	062095	1800	11	0.45	0.12	0.54	0.29	0.09	0.21	0.79	0.12	0.43	0.26	0.28	0.47	0.27	0.18	0.33	1.11	0.83	0.04	0.06	0.15	0.43	0.40	0.82	0.11	0.07
337	062195	1900	6	0.06	0.06	0.21	0.11	0.10	0.10	0.27	0.18	0.31	0.54	0.44	0.71	0.91	0.52	0.96	0.61	0.37	1.29	2.67	0.51	0.66	0.57	0.48	0.61	0.48
338	062395	1400	6	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.04	0.04	0.04	0.02	0.09	0.00	0.03	0.00	0.00	0.03	0.14	0.00	0.00
339	062495	0100	6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.64	0.00	0.00	0.00	0.23	0.86	0.26	0.59	0.00	0.04	0.13	0.33	1.23	2.52	0.00	0.00	0.00
340	062495	1600	5	0.05	1.91	0.09	0.02	0.69	0.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.04
341	062595	1400	6	0.00	0.04	0.00	0.15	0.03	0.04	0.05	0.00	0.00	0.05	0.00	0.07	0.00	0.04	0.13	0.06	0.35	0.00	0.00	0.06	0.20	0.03	0.00	0.03	0.05

Note: *Duration specified in hours. Values in boldface type exceed one-year or more recurrence frequency.

Table V-2. (Continued)

Storm	Date	Hour	Duration*	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
342	062695	0200	16	0.90	0.48	0.23	0.00	0.22	0.25	0.09	0.10	0.05	0.07	0.17	0.16	0.27	0.16	0.02	0.12	0.09	0.44	0.47	0.45	0.05	0.03	0.08	0.48	0.33
343	062795	1100	11	0.03	0.03	0.00	0.15	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.17	0.09	0.02	0.00	0.02	0.42	0.04	0.00	0.05	0.02	0.05	0.13
344	062895	1400	7	0.20	0.89	0.09	0.00	0.46	0.29	0.22	0.10	0.00	0.13	0.45	0.36	0.09	0.48	0.03	0.63	1.10	0.13	0.07	0.35	0.41	0.46	0.39	0.14	0.08
345	062995	1100	11	0.09	0.04	0.03	0.06	0.02	0.04	0.04	0.09	0.11	0.05	0.02	0.08	0.10	0.04	0.04	0.00	0.04	0.34	0.21	0.06	0.02	0.27	0.04	0.42	0.22
346	070495	0300	14	1.09	0.93	0.52	0.74	0.70	0.37	0.35	0.38	0.45	0.25	0.00	0.24	0.11	0.30	0.00	0.22	0.29	0.27	0.16	0.10	0.07	0.13	0.29	0.48	0.17
347	070495	2300	5	0.12	0.08	0.18	0.35	0.06	0.13	0.28	0.27	0.13	0.08	0.00	0.25	0.03	0.10	0.00	0.00	0.09	0.03	0.00	0.03	0.04	0.10	0.00	0.00	0.00
348	070595	2100	4	0.37	0.27	0.11	0.15	0.04	0.03	0.04	0.08	0.03	0.05	0.05	0.10	0.00	0.06	0.00	0.00	0.00	0.06	0.02	0.00	0.00	0.03	0.12	0.04	0.00
349	070995	1300	5	0.11	0.00	0.00	0.00	0.07	0.00	0.03	0.00	0.04	0.03	0.05	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.04	0.02	0.00	0.00
350	071695	1400	5	0.06	0.03	0.04	0.20	0.23	0.10	0.05	0.00	0.10	0.16	0.46	0.94	0.32	0.24	0.05	0.68	0.31	0.10	0.28	0.40	0.26	0.12	0.14	0.61	0.50
351	071895	2000	5	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
352	072095	0700	10	0.12	0.14	0.11	0.20	0.25	0.31	0.41	0.45	0.34	0.27	0.22	0.14	0.27	0.25	0.00	0.00	0.15	0.22	0.18	0.18	0.21	0.21	0.25	0.23	0.18
353	072095	2000	4	0.03	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
354	072295	0800	6	0.49	0.47	0.64	0.65	0.55	0.36	0.36	0.24	0.24	0.46	0.83	0.85	0.10	0.07	0.19	0.57	0.84	0.12	0.37	0.34	0.74	0.42	0.51	0.39	0.26
355	072395	0600	6	0.62	0.31	0.10	0.32	0.55	0.09	0.10	0.53	0.46	0.49	0.42	0.49	0.77	0.37	0.38	0.44	0.28	1.10	0.82	0.30	0.33	0.60	0.45	0.85	0.23
356	072395	2100	4	0.05	0.03	0.02	0.04	0.01	0.06	0.00	0.21	0.04	0.05	0.04	0.04	0.25	0.08	0.03	0.00	0.03	0.68	0.75	0.39	0.20	0.26	0.06	0.00	0.00
357	072495	1600	5	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.10	0.68	0.02	0.03	0.20	0.18	0.23	0.08	0.10	0.30	0.39	0.23	0.32	0.61	0.00	0.00	0.84	0.36
358	072595	1300	15	0.42	0.29	0.14	0.00	0.16	0.19	0.42	0.00	0.20	0.04	0.16	0.00	0.29	0.08	0.05	0.02	0.27	0.16	0.26	0.41	0.21	0.23	0.55	0.56	0.25
359	072695	1700	4	0.00	0.44	0.08	0.15	0.00	0.20	0.26	0.00	0.32	0.25	0.00	0.50	0.17	0.24	0.00	0.44	0.24	0.28	0.13	0.74	0.03	0.00	0.05	0.00	0.12
360	072795	2000	5	0.05	0.03	0.00	0.00	0.02	0.00	0.00	0.15	0.10	0.03	0.00	0.00	0.16	0.21	0.00	0.02	0.00	0.16	0.04	0.06	0.04	0.01	0.00	0.09	0.09
361	073195	2000	8	0.00	0.03	0.65	0.00	0.12	0.18	0.24	0.25	0.01	0.22	0.14	0.06	0.22	0.34	0.11	0.16	0.11	0.00	0.14	0.49	0.22	0.16	0.21	0.04	0.20
362	080195	1500	5	0.00	0.14	0.03	0.00	0.01	0.01	0.00	0.00	0.00	0.01	0.04	0.00	0.00	0.00	0.04	0.04	0.00	0.08	0.03	0.04	0.00	0.55	0.26	0.28	0.14
363	080295	0200	17	0.67	0.55	0.48	0.55	0.67	0.36	0.45	0.33	0.60	0.47	0.58	0.44	0.62	0.89	0.71	0.85	0.43	0.70	0.98	0.88	0.85	0.77	0.54	0.74	0.94
364	080395	0100	11	0.33	0.47	0.46	0.33	0.41	0.32	0.25	0.32	0.14	0.13	0.04	0.18	0.11	0.01	0.17	0.20	0.41	0.00	0.05	0.06	0.28	0.15	0.57	0.00	0.05
365	080395	2300	15	0.09	0.09	0.00	0.13	0.07	0.00	0.13	0.12	0.08	0.09	0.17	0.17	0.13	0.16	0.14	0.26	0.19	0.21	0.30	0.16	0.34	1.29	1.12	1.10	0.52
366	080495	2100	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
367	080595	0200	5	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.05	0.00	0.03	0.12	0.00	0.00	0.00	0.06	0.00	0.00	0.04	0.03	0.00	0.09	0.00	0.00	0.00	0.09
368	080695	1800	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00
369	080695	2300	3	0.01	0.17	0.00	0.00	0.00	0.11	0.09	0.00	0.00	0.00	0.04	0.29	0.00	0.15	0.03	0.00	0.08	0.00	0.00	0.20	0.02	0.06	0.04	0.00	0.00
370	080895	0400	3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.03	0.00	0.00	0.00	0.03	0.23	0.00	0.00	0.00	0.00	0.00	0.00
371	080895	1200	6	0.34	0.21	0.29	0.32	0.22	0.29	1.15	0.33	0.32	0.17	0.21	0.46	0.76	0.91	0.41	0.17	0.40	0.88	0.80	0.73	0.53	0.40	0.39	0.21	0.31
372	080995	1900	12	0.06	0.24	0.22	0.30	0.48	0.42	0.24	0.22	0.60	0.40	0.13	2.26	0.53	0.80	0.48	0.96	1.80	0.29	0.78	0.59	0.24	0.43	0.87	0.04	0.37
373	081395	1900	3	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
374	081495	1100	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
375	081595	1600	8	0.68	0.13	0.38	0.49	0.28	0.04	0.49	0.47	0.22	0.06	0.05	0.27	0.00	0.10	0.00	0.00	0.03	0.11	0.15	0.04	0.15	0.00	0.00	0.09	0.12
376	081695	1100	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
377	081695	1500	7	0.00	0.00	0.02	0.00	0.00	0.02	0.02	0.00	0.00	0.00	0.00	0.03	0.10	0.00	0.00	0.00	0.05	0.02	0.00	0.00	0.14	0.09	0.04	0.17	0.16
378	081795	0100	7	0.04	0.17	0.21	0.15	0.24	0.22	0.21	0.41	0.23	0.42	0.25	0.18	0.04	0.21	0.29	0.37	0.48	0.16	0.21	0.25	0.29	0.49	0.51	0.13	0.28
379	082495	1500	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Note: *Duration specified in hours. Values in boldface type exceed one-year or more recurrence frequency.

Table V-2. (Continued)

Storm	Date	Hour	Duration*	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
380	090695	1600	12	--	0.49	0.45	0.59	--	0.50	0.52	0.62	0.46	0.54	0.58	0.53	0.49	--	0.61	0.56	--	0.38	0.48	0.49	0.53	0.56	0.54	0.35	----
381	090795	1300	24	--	0.56	0.94	0.24	--	0.93	1.51	0.78	0.72	1.39	0.67	0.49	0.45	--	0.26	0.32	--	0.17	0.32	0.53	0.13	0.33	0.75	0.08	----
382	091795	1300	2	--	0.00	0.00	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00	--	0.00	0.00	0.00	0.02	0.04	0.05	0.03	----
383	091995	1300	15	--	0.37	0.38	0.45	--	0.41	0.34	0.34	0.35	0.32	0.42	0.40	0.38	--	0.33	0.42	--	0.23	0.37	0.32	0.34	0.32	0.26	0.32	----
384	092195	0900	16	--	0.25	0.15	0.20	--	0.15	0.16	0.17	0.15	0.25	0.14	0.21	0.14	--	0.17	0.18	--	0.13	0.16	0.17	0.18	0.18	0.14	0.10	----
385	093095	1900	7	--	0.47	0.45	0.45	--	0.49	0.25	0.30	0.47	0.50	0.38	0.29	0.32	--	0.43	0.40	--	0.29	0.63	0.36	0.31	0.24	0.21	0.36	----
386	100295	2300	5	--	0.00	0.00	0.00	--	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00	--	0.00	0.07	--	0.00	0.02	0.00	0.08	0.10	0.09	0.00	----
387	100595	1600	8	--	0.07	0.20	0.04	--	0.08	0.13	0.00	0.00	0.00	0.00	0.13	0.00	--	0.00	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00	----
388	100695	1700	4	--	0.00	0.00	0.01	--	0.00	0.00	0.00	0.04	0.00	0.07	0.00	0.00	--	0.00	0.08	--	0.00	0.00	0.00	0.00	0.04	0.09	0.00	----
389	101395	1700	11	--	0.13	0.18	0.23	--	0.16	0.15	0.22	0.12	0.13	0.18	0.30	0.14	--	0.14	0.04	--	0.19	0.15	0.12	0.19	0.19	0.16	0.16	----
390	101995	1600	10	--	1.41	1.53	1.28	--	1.45	1.36	1.03	1.32	1.32	1.53	1.37	1.31	--	1.47	1.54	--	1.22	1.29	1.27	1.60	1.51	1.27	1.12	----
391	102095	1100	6	--	0.00	0.00	0.00	--	0.03	0.04	0.00	0.00	0.00	0.05	0.03	0.00	--	0.00	0.00	--	0.03	0.00	0.00	0.00	0.04	0.00	0.00	----
392	102395	1400	6	--	0.16	0.24	0.19	--	0.19	0.16	0.19	0.20	0.30	0.17	0.17	0.14	--	0.18	0.14	--	0.16	0.17	0.09	0.13	0.18	0.11	0.17	----
393	102695	1500	12	--	0.48	0.37	0.38	--	0.37	0.38	0.41	0.36	0.40	0.37	0.45	0.33	--	0.36	0.39	--	0.25	0.32	0.29	0.29	0.42	0.62	0.28	----
394	103095	1200	24	--	0.99	0.98	1.07	--	1.18	1.22	0.97	0.99	1.09	1.14	1.18	0.83	--	0.96	0.69	--	0.79	0.78	0.61	0.60	0.68	0.75	0.48	----
395	110195	1200	10	--	0.75	0.46	0.89	--	0.48	0.39	0.58	0.80	0.44	0.48	0.36	0.79	--	0.43	0.39	--	0.61	0.69	0.33	0.43	0.31	0.21	0.63	----
396	110295	0300	10	--	0.39	0.23	0.42	--	0.17	0.04	0.39	0.22	0.08	0.00	0.04	0.23	--	0.01	0.00	--	0.11	0.00	0.06	0.00	0.04	0.08	0.07	----
397	111095	1300	21	--	1.30	1.40	1.20	--	1.23	1.49	1.26	1.16	1.19	1.32	1.07	1.33	--	1.09	1.13	--	1.16	1.18	1.08	1.09	1.10	1.00	0.91	----
398	120795	1400	4	--	0.00	0.00	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00	--	0.00	0.08	0.00	0.00	0.00	0.00	0.03	----
399	120895	0600	18	--	0.04	0.16	0.04	--	0.05	0.06	0.07	0.17	0.03	0.11	0.09	0.14	--	0.12	0.14	--	0.07	0.11	0.06	0.09	0.19	0.20	0.13	----
400	121795	2100	16	--	0.09	0.21	0.10	--	0.16	0.18	0.12	0.20	0.18	0.29	0.30	0.15	--	0.26	0.28	--	0.20	0.34	0.24	0.23	0.32	0.31	0.18	----
401	121895	2000	10	--	0.00	0.00	0.00	--	0.00	0.12	0.00	0.05	0.03	0.12	0.33	0.05	--	0.13	0.21	--	0.07	0.25	0.14	0.17	0.23	0.21	0.23	----
402	121995	0900	3	--	0.00	0.00	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00	--	0.00	0.04	0.00	0.00	0.00	0.00	0.00	----
403	010496	0300	17	--	0.09	0.15	0.05	--	0.09	0.11	0.04	0.09	0.12	0.10	0.11	0.09	--	0.13	0.11	--	0.14	0.13	0.10	0.05	0.16	0.13	0.13	----
404	010596	1100	11	--	0.01	0.00	0.01	--	0.07	0.10	0.02	0.00	0.00	0.00	0.06	0.04	--	0.06	0.00	--	0.01	0.00	0.00	0.00	0.00	0.00	0.00	----
405	011196	0200	11	--	0.12	0.10	0.16	--	0.08	0.07	0.14	0.16	0.04	0.03	0.08	0.11	--	0.08	0.00	--	0.07	0.14	0.10	0.00	0.14	0.12	0.00	----
406	011796	0700	4	--	0.08	0.00	0.14	--	0.00	0.00	0.33	0.22	0.00	0.00	0.00	0.11	--	0.00	0.00	--	0.30	0.08	0.00	0.00	0.00	0.00	0.16	----
407	011896	0100	22	--	0.35	0.36	0.98	--	0.53	0.32	0.75	0.37	0.39	0.35	0.32	0.43	--	0.42	0.36	--	0.57	0.48	0.34	0.42	0.44	0.40	0.88	----
408	012396	0100	13	--	0.10	0.08	0.09	--	0.06	0.07	0.06	0.05	0.10	0.08	0.17	0.10	--	0.17	0.08	--	0.08	0.19	0.11	0.14	0.10	0.05	0.12	----
409	012696	0700	12	--	0.23	0.21	0.18	--	0.16	0.15	0.18	0.18	0.12	0.02	0.11	0.19	--	0.10	0.08	--	0.29	0.20	0.09	0.05	0.06	0.04	0.20	----
410	013096	0800	9	--	0.00	0.00	0.00	--	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00	--	0.05	0.00	0.00	0.04	0.00	0.00	0.00	----
411	020896	0500	5	--	0.05	0.04	0.03	--	0.04	0.03	0.01	0.00	0.03	0.00	0.03	0.00	--	0.02	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00	----
412	022196	1500	8	--	0.04	0.01	0.02	--	0.03	0.03	0.02	0.00	0.02	0.02	0.11	0.00	--	0.02	0.00	--	0.03	0.00	0.02	0.03	0.03	0.04	0.00	----
413	022696	0900	5	--	0.04	0.08	0.40	--	0.85	0.72	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00	----
414	022696	1900	13	--	1.22	0.40	1.28	--	0.34	0.51	0.79	0.69	0.58	0.48	0.43	0.58	--	0.47	0.48	--	0.44	0.67	0.64	0.43	0.53	0.91	0.64	----
415	030596	0100	12	--	1.35	1.28	1.19	--	1.09	1.10	1.26	1.15	1.04	0.98	1.02	1.06	--	1.21	1.08	--	1.04	1.26	1.22	1.18	1.00	1.11	1.18	----
416	030696	0200	14	--	0.07	0.05	0.05	--	0.08	0.01	0.08	0.13	0.05	0.04	0.09	0.06	--	0.12	0.08	--	0.03	0.11	0.05	0.08	0.05	0.10	0.01	----
417	031996	1700	14	--	0.07	0.02	0.00	--	0.00	0.01	0.05	0.09	0.00	0.07	0.01	0.00	--	0.01	0.06	--	0.06	0.09	0.01	0.24	0.05	0.05	0.00	----

Note: *Duration specified in hours. Values in boldface type exceed one-year or more recurrence frequency.

Table V-2. (Continued)

Storm	Date	Hour	Duration*	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
418	03 2396	1300	6	—	0.00	0.00	0.01	—	0.00	0.00	0.00	0.02	0.00	0.04	0.00	0.01	—	0.00	0.02	—	0.00	0.02	0.00	0.03	0.05	0.00	0.04	----
419	032496	1900	7	—	0.75	0.29	0.82	—	0.35	0.27	0.66	0.75	0.42	0.46	0.31	0.72	—	0.41	0.29	—	0.82	0.62	0.42	0.36	0.33	0.49	0.80	----
420	032896	1200	12	—	0.12	0.10	0.07	—	0.10	0.10	0.16	0.04	0.11	0.06	0.10	0.10	—	0.10	0.13	—	0.16	0.09	0.10	0.12	0.10	0.09	0.07	----
421	033196	0100	13	—	0.05	0.03	0.02	—	0.04	0.03	0.01	0.02	0.06	0.05	0.03	0.03	—	0.13	0.02	—	0.00	0.07	0.08	0.16	0.03	0.08	0.03	----
422	041496	1800	19	—	1.13	1.03	1.00	—	0.99	0.88	0.81	1.09	0.91	0.91	0.94	0.99	—	0.84	0.78	—	0.97	1.08	0.79	0.78	0.75	0.70	1.02	----
423	041896	1600	5	—	0.18	0.23	0.53	—	0.78	0.94	0.58	0.32	0.17	0.11	0.11	0.15	—	0.17	0.14	—	0.20	0.59	0.47	0.32	0.52	0.33	0.00	----
424	041996	1000	2	—	0.04	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	----
425	041996	1600	4	—	0.09	0.06	0.20	—	0.30	0.27	0.60	0.58	0.70	1.14	0.65	1.00	—	0.15	0.10	—	0.20	0.00	0.00	0.00	0.00	0.00	0.00	----
426	042196	1900	15	—	0.28	0.35	0.26	—	0.45	0.61	0.26	0.41	0.72	0.71	0.77	0.29	—	1.16	1.49	—	0.54	0.90	1.13	0.48	0.59	0.37	0.49	----
427	042796	1900	41	—	0.46	0.50	0.42	—	0.48	0.35	0.44	0.44	0.32	0.39	0.36	0.48	—	0.36	0.40	—	0.52	0.65	0.42	0.40	0.41	0.17	0.65	----
428	050396	1800	18	—	0.47	0.27	0.15	—	0.19	0.32	0.38	0.41	0.30	0.28	0.18	0.41	—	0.40	0.25	—	0.38	0.48	0.33	0.30	0.38	0.34	0.47	----
429	05 0596	0600	6	—	0.10	0.09	0.05	—	0.04	0.04	0.22	0.14	0.07	0.05	0.04	0.01	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.13	----
430	050696	1900	12	—	0.15	0.13	0.19	—	0.10	0.07	0.38	0.34	0.25	0.23	0.19	0.37	—	0.34	0.24	—	0.49	0.60	0.40	0.41	0.43	0.31	0.55	----
431	050796	1400	6	—	0.00	0.00	0.00	—	0.00	0.00	0.02	0.02	0.00	0.02	0.05	0.03	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.03	0.00	0.00	----
432	050896	0100	14	—	1.03	0.86	0.99	—	1.05	1.05	1.23	1.08	1.10	1.08	1.09	1.12	—	0.99	0.89	—	1.66	1.63	1.18	1.17	1.11	1.00	4.64	----
433	050996	1200	2	—	0.00	0.08	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	----
434	051096	0200	21	—	0.81	0.78	0.51	—	0.51	0.38	0.58	0.52	0.21	0.21	0.41	0.41	—	0.37	0.40	—	0.64	0.56	0.43	0.60	0.83	0.68	0.38	----
435	051396	0300	3	—	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.03	0.00	0.00	0.00	0.00	----
436	051396	0900	1	—	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.04	0.00	----
437	051396	1400	6	—	0.05	0.03	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	—	0.03	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.05	----
438	051496	1400	8	—	0.02	0.02	0.07	—	0.04	0.04	0.05	0.00	0.01	0.03	0.03	0.04	—	0.10	0.05	—	0.07	0.00	0.00	0.00	0.00	0.00	0.09	----
439	051596	0100	6	—	0.09	0.06	0.08	—	0.08	0.11	0.13	0.07	0.03	0.04	0.03	0.04	—	0.03	0.03	—	0.01	0.00	0.00	0.00	0.00	0.00	0.04	----
440	051696	0700	3	—	0.02	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.02	0.00	0.00	0.00	0.00	0.00	0.00	----
441	052096	1500	12	—	0.23	0.31	0.34	—	0.13	0.13	0.16	0.14	0.11	0.14	0.16	0.16	—	0.05	0.05	—	0.08	0.00	0.00	0.03	0.28	0.12	0.00	----
442	052396	0200	8	—	0.13	0.09	0.20	—	0.12	0.17	0.22	0.25	0.19	0.23	0.22	0.31	—	0.32	0.30	—	0.34	0.46	0.29	0.25	0.33	0.41	0.49	----
443	052496	0300	1	—	0.00	0.00	0.00	—	0.00	0.00	0.01	0.05	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	----
444	052496	0900	7	—	0.30	0.60	0.34	—	0.54	0.27	0.40	0.42	0.29	0.53	0.37	0.30	—	0.30	0.40	—	0.42	0.46	0.40	0.26	0.17	0.14	0.45	----
445	052596	0400	5	—	0.66	0.33	0.33	—	0.03	0.00	0.21	0.19	0.01	0.03	0.00	0.00	—	0.03	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	----
446	052596	1700	8	—	0.11	0.07	0.16	—	0.11	0.09	0.19	0.21	0.15	0.16	0.20	0.24	—	0.24	0.27	—	0.42	0.56	0.32	0.25	0.17	0.19	0.44	----
447	052696	1100	7	—	0.35	0.32	0.34	—	0.26	0.25	0.41	0.45	0.35	0.59	0.62	0.47	—	0.47	0.42	—	0.57	0.68	0.50	0.73	0.47	0.30	0.74	----
448	052696	2300	12	—	1.30	1.83	1.13	—	1.46	1.16	1.06	1.40	1.06	1.35	1.09	1.01	—	1.08	1.09	—	0.93	1.36	0.92	1.10	1.13	1.01	0.97	----
449	052896	0600	6	—	0.00	0.13	0.00	—	0.20	0.09	0.00	0.00	0.08	0.00	0.00	0.00	—	0.05	0.00	—	0.04	0.00	0.04	0.00	0.00	0.00	0.00	----
450	052996	0700	8	—	0.04	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.04	0.00	0.00	0.00	0.00	----
451	053096	0600	3	—	0.01	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.02	0.00	0.00	0.00	0.00	0.00	0.00	----
452	053196	0800	1	—	0.01	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	----
453	060196	0600	19	—	0.57	0.70	0.72	—	0.63	0.43	0.89	0.69	0.52	0.70	0.47	0.75	—	0.65	0.70	—	0.21	0.78	0.70	0.86	0.67	0.79	0.79	----
454	060296	1900	5	—	0.23	0.29	0.39	—	0.56	0.45	0.54	0.51	0.35	0.45	0.41	0.28	—	0.13	0.24	—	0.19	0.09	0.12	0.13	0.20	0.27	0.02	----
455	060596	2100	5	—	0.05	0.04	0.21	—	0.25	0.36	0.17	0.33	0.14	0.30	0.53	0.16	—	0.18	0.24	—	0.06	0.17	0.15	0.11	0.10	0.15	0.18	----

Note: *Duration specified in hours. Values in boldface type exceed one-year or more recurrence frequency.

Table V-2. (Continued)

Storm	Date	Hour	Duration*	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
456	060696	1800	4	--	0.24	1.30	0.08	--	0.48	0.45	0.22	0.65	0.60	0.78	0.35	0.29	--	0.57	1.35	--	0.08	0.41	0.70	0.70	0.42	0.26	0.14	----
457	060896	1800	15	--	0.00	0.02	0.04	--	0.02	0.02	0.05	0.06	0.03	0.03	0.04	0.04	--	0.04	0.04	--	0.01	0.09	0.07	0.02	0.05	0.03	0.03	----
458	060996	2100	8	--	0.10	0.07	0.11	--	0.08	0.05	0.18	0.34	0.08	0.06	0.07	0.12	--	0.07	0.09	--	0.03	0.10	0.08	0.11	0.09	0.08	0.08	----
459	061396	1400	8	--	0.06	0.13	0.00	--	0.02	1.13	0.00	0.00	0.23	0.74	1.12	0.00	--	0.05	0.78	--	0.09	0.00	0.20	0.10	0.30	1.21	0.06	----
460	061796	0500	2	--	0.05	0.03	0.00	--	0.00	0.20	0.00	0.00	0.00	0.00	0.12	0.00	--	0.00	0.00	--	0.00	0.00	0.00	0.00	0.07	0.07	0.00	----
461	061796	1700	11	--	0.19	0.12	0.10	--	0.11	0.00	0.10	0.05	0.00	0.00	0.37	0.10	--	0.03	0.23	--	0.09	0.17	0.07	0.41	0.09	0.36	0.41	----
462	062196	1800	4	--	0.00	0.00	0.00	--	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	--	0.00	0.00	--	0.00	0.00	0.00	0.00	0.12	0.00	0.00	----
463	062396	2100	5	--	0.46	0.39	0.69	--	0.58	0.20	0.61	0.99	0.82	0.71	0.56	0.98	--	0.87	0.66	--	0.20	0.76	0.65	0.31	0.39	0.27	0.20	----
464	07 1296	2200	6	--	0.00	0.00	0.10	--	0.00	0.00	0.26	0.14	0.00	0.00	0.00	0.34	--	0.10	0.07	--	0.23	0.14	0.14	0.25	0.34	0.41	0.21	----
465	07 1496	0300	21	--	0.44	0.38	0.54	--	0.40	0.45	0.57	0.68	0.59	0.80	0.82	0.77	--	1.02	0.54	--	0.55	0.35	0.33	0.34	0.48	0.54	0.32	----
466	07 1696	1200	2	--	0.00	0.01	0.00	--	0.06	0.05	0.00	0.00	0.04	0.07	0.02	0.00	--	0.00	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00	----
467	07 2096	1200	23	--	1.44	1.31	1.04	--	0.89	0.92	0.83	1.06	1.00	1.17	1.04	1.07	--	1.20	1.07	--	0.91	1.18	1.09	1.14	1.07	1.34	0.80	----
468	07 2296	1700	4	--	0.11	0.29	0.13	--	0.04	0.11	0.20	0.09	0.10	0.07	0.06	0.16	--	0.09	0.08	--	0.08	0.19	0.19	0.07	0.14	0.07	0.27	----
469	07 2396	2000	10	--	0.03	0.10	0.17	--	0.14	0.48	0.25	0.15	0.29	0.35	0.23	0.60	--	0.28	0.21	--	0.01	0.09	0.10	0.29	0.30	0.21	0.22	----
470	07 2496	1100	4	--	0.11	0.06	0.06	--	0.13	0.05	0.05	0.04	0.09	0.07	0.00	0.08	--	0.34	0.05	--	0.22	0.25	0.11	0.27	0.23	0.24	0.22	----
471	07 2796	2300	2	--	0.00	0.00	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00	--	0.00	0.00	0.00	0.00	0.03	0.02	0.00	----
472	07 2896	1400	8	--	0.07	1.19	0.00	--	0.00	0.36	0.00	0.00	0.00	0.04	0.49	0.00	--	0.03	0.00	--	0.00	0.68	0.49	0.45	0.37	0.02	0.00	----
473	07 3096	0100	5	--	0.35	0.35	0.65	--	0.17	0.06	0.56	0.92	0.71	0.59	0.37	0.20	--	1.15	0.81	--	0.00	0.00	0.02	0.09	0.08	0.30	0.00	----
474	080796	1700	5	--	1.05	0.00	0.10	--	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.03	--	0.00	0.00	--	0.15	0.00	0.00	0.00	0.00	0.00	0.05	----
475	081696	2100	39	--	0.75	0.60	0.82	--	0.47	0.61	0.81	0.93	0.55	0.57	0.63	1.04	--	0.74	0.74	--	1.26	1.39	1.04	1.16	1.11	1.06	1.54	----
476	081996	0200	3	--	0.06	0.00	0.00	--	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00	----
477	082396	1100	2	--	0.00	0.00	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	0.32	0.00	--	0.00	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00	----
478	090696	1700	6	--	0.24	0.00	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	0.12	----
479	090896	1200	2	--	0.00	0.00	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00	--	0.00	0.00	0.00	0.05	0.05	0.04	0.04	----
480	090896	1700	3	--	0.00	0.00	0.00	--	0.00	0.00	0.00	0.00	0.00	0.09	0.16	0.00	--	0.00	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	0.06	----
481	092396	0500	10	--	0.26	0.27	0.37	--	0.29	0.28	0.34	0.35	0.31	0.33	0.34	0.34	--	0.36	0.37	--	0.39	0.41	0.34	0.34	0.35	0.37	0.39	----
482	092596	1600	4	--	0.00	0.00	0.00	--	0.00	0.00	0.00	0.00	0.00	0.12	0.11	0.00	--	0.00	0.08	--	0.00	0.08	0.00	0.06	0.10	0.08	0.10	----
483	092596	2300	27	--	1.28	1.30	1.21	--	1.21	1.19	1.43	1.05	1.22	0.99	1.15	1.38	--	1.19	0.77	--	0.96	1.42	1.13	0.88	0.59	1.09	1.62	----
484	100796	1200	1	--	0.00	0.00	0.00	--	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00	----
485	100796	1800	10	--	0.34	0.32	0.00	--	0.53	0.52	0.28	0.25	0.33	0.41	0.49	0.32	--	0.38	0.57	--	0.37	0.39	0.33	0.35	0.55	0.67	0.39	----
486	100896	1500	1	--	0.00	0.00	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00	--	0.00	0.00	0.00	0.00	0.00	0.04	0.00	----
487	101796	0200	4	--	0.00	0.00	0.00	--	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	--	0.10	0.00	--	0.00	0.00	0.06	0.00	0.00	0.00	0.00	----
488	101796	1200	10	--	0.56	0.76	0.49	--	0.66	0.42	0.35	0.72	0.36	0.71	0.60	0.56	--	0.94	0.54	--	0.52	0.43	0.80	0.45	0.89	1.24	0.41	----
489	102196	0400	6	--	0.04	0.02	0.00	--	0.01	0.03	0.03	0.00	0.03	0.00	0.00	0.00	--	0.04	0.00	--	0.02	0.00	0.02	0.00	0.00	0.00	0.06	----
490	102196	1300	2	--	0.00	0.00	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.02	--	0.00	0.00	0.00	0.00	0.00	0.03	0.00	----
491	102196	1900	1	--	0.00	0.00	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	--	0.00	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00	----
492	102196	2400	20	--	0.75	0.46	0.72	--	0.55	0.53	0.79	0.69	0.59	0.68	0.53	0.66	--	0.64	0.67	--	0.83	0.75	0.72	0.62	0.75	0.73	0.93	----
493	102296	2300	9	--	0.04	0.05	0.02	--	0.04	0.05	0.09	0.06	0.08	0.09	0.11	0.02	--	0.03	0.07	--	0.09	0.08	0.04	0.09	0.04	0.04	0.10	----

Note: *Duration specified in hours. Values in boldface type exceed one-year or more recurrence frequency.

Table V-2. (Continued)

Storm	Date	Hour	Duration*	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
494	102996	1400	6	--	0.20	0.12	0.24	--	0.17	0.20	0.20	0.22	0.12	0.17	0.23	0.18	--	0.21	0.20	--	0.43	0.13	0.14	0.20	0.20	0.16	0.16	----
495	110496	1700	10	--	0.03	0.08	0.06	--	0.00	0.06	0.06	0.04	0.00	0.00	0.07	0.02	--	0.01	0.02	--	0.03	0.00	0.00	0.00	0.00	0.00	0.00	----
496	110696	0700	19	--	1.47	1.08	1.10	--	1.09	1.07	1.01	1.39	0.94	1.23	1.06	1.16	--	1.13	1.46	--	0.87	1.07	0.98	1.10	1.23	1.17	1.18	----
497	110796	0500	9	--	0.00	0.06	0.00	--	0.04	0.07	0.00	0.00	0.04	0.06	0.12	0.00	--	0.05	0.15	--	0.00	0.10	0.09	0.16	0.25	0.24	0.06	----
498	111696	2000	15	--	0.27	0.17	0.00	--	0.23	0.21	0.24	0.00	0.27	0.20	0.21	0.20	--	0.22	0.22	--	0.28	0.27	0.25	0.16	0.20	0.19	0.29	----
499	112096	2300	17	--	0.11	0.05	0.00	--	0.01	0.05	0.15	0.00	0.10	0.09	0.07	0.09	--	0.11	0.22	--	0.01	0.13	0.07	0.05	0.09	0.13	0.08	----
500	112396	0900	10	--	0.09	0.00	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00	--	0.00	0.00	0.02	0.00	0.00	0.00	0.00	----
501	112496	0300	17	--	0.28	0.19	0.19	--	0.20	0.27	0.16	0.00	0.21	0.30	0.27	0.17	--	0.28	0.32	--	0.24	0.32	0.30	0.34	0.29	0.19	0.20	----
502	112996	1400	14	--	0.60	0.23	0.38	--	0.31	0.32	0.37	0.41	0.29	0.26	0.33	0.36	--	0.33	0.59	--	0.31	0.38	0.31	0.32	0.39	0.36	0.31	----
503	113096	2300	2	--	0.00	0.02	0.00	--	0.02	0.04	0.00	0.00	0.04	0.02	0.02	0.02	--	0.04	0.02	--	0.08	0.05	0.04	0.01	0.00	0.00	0.02	----
504	120196	0100	12	--	0.11	0.08	0.15	--	0.15	0.07	0.11	0.16	0.11	0.09	0.08	0.12	--	0.09	0.20	--	0.11	0.21	0.06	0.20	0.05	0.04	0.10	----
505	120496	2300	15	--	0.16	0.23	0.00	--	0.09	0.13	0.21	0.18	0.13	0.28	0.08	0.11	--	0.14	0.15	--	0.09	0.15	0.10	0.06	0.13	0.17	0.18	----
506	121196	0400	4	--	0.04	0.01	0.00	--	0.03	0.03	0.06	0.00	0.03	0.06	0.03	0.00	--	0.00	0.04	--	0.00	0.04	0.04	0.00	0.05	0.21	0.03	----
507	121496	2400	4	--	0.06	0.03	0.00	--	0.03	0.05	0.00	0.01	0.03	0.09	0.08	0.00	--	0.05	0.07	--	0.02	0.03	0.04	0.07	0.04	0.04	0.00	----
508	122396	0300	14	--	0.75	0.90	0.45	--	0.96	0.60	0.44	0.72	0.67	0.48	0.26	0.92	--	0.32	0.25	--	1.17	0.59	0.34	0.07	0.00	0.23	0.74	----
509	010497	1000	6	--	0.08	0.03	0.00	--	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.03	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00	----
510	010897	2300	14	--	0.15	0.09	0.03	--	0.10	0.31	0.00	0.00	0.09	0.16	0.33	0.22	--	0.23	0.15	--	0.21	0.23	0.13	0.18	0.06	0.21	0.00	----
511	010997	1800	10	--	0.06	0.05	0.11	--	0.08	0.04	0.00	0.00	0.05	0.00	0.00	0.04	--	0.00	0.04	--	0.09	0.00	0.00	0.02	0.09	0.00	0.00	----
512	011297	1100	4	--	0.00	0.00	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00	--	0.00	0.00	0.00	0.13	0.00	0.00	0.15	----
513	011297	1900	4	--	0.00	0.00	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00	--	0.00	0.00	0.00	0.04	0.00	0.00	0.14	----
514	011597	0300	36	--	0.22	0.37	0.00	--	0.32	0.29	0.00	0.00	0.40	0.43	0.23	0.41	--	0.25	0.19	--	0.37	0.32	0.26	0.00	0.36	0.44	0.00	----
515	012197	1300	5	--	0.08	0.10	0.00	--	0.00	0.07	0.00	0.00	0.04	0.06	0.07	0.00	--	0.03	0.08	--	0.00	0.00	0.04	0.00	0.06	0.00	0.00	----
516	012197	2400	4	--	0.05	0.11	0.00	--	0.10	0.05	0.00	0.12	0.08	0.04	0.05	0.09	--	0.04	0.07	--	0.11	0.07	0.05	0.00	0.05	0.00	0.00	----
517	012297	0900	2	--	0.00	0.00	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00	--	0.00	0.00	0.04	0.00	0.00	0.00	0.00	----
518	012497	0900	8	--	0.35	0.27	0.28	--	0.26	0.36	0.35	0.36	0.36	0.24	0.43	0.30	--	0.31	0.39	--	0.33	0.30	0.35	0.28	0.44	0.00	0.00	----
519	012697	0500	9	--	0.07	0.17	0.13	--	0.06	0.07	0.05	0.14	0.06	0.14	0.12	0.14	--	0.07	0.07	--	0.17	0.19	0.12	0.06	0.18	0.00	0.00	----
520	012697	2300	2	--	0.00	0.00	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00	--	0.02	0.00	0.00	0.00	0.00	0.00	0.00	----
521	012797	0700	11	--	0.19	0.14	0.00	--	0.16	0.12	0.19	0.27	0.10	0.25	0.09	0.13	--	0.14	0.15	--	0.41	0.23	0.14	0.18	0.07	0.00	0.00	----
522	020297	1500	8	--	0.00	0.00	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00	--	0.08	0.00	0.00	0.00	0.00	0.00	0.00	----
523	020397	0500	3	--	0.00	0.00	0.00	--	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	--	0.01	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00	----
524	020397	1100	27	--	0.12	0.15	0.00	--	0.08	0.11	0.10	0.11	0.10	0.08	0.08	0.15	--	0.12	0.19	--	0.21	0.19	0.12	0.07	0.12	0.00	0.14	----
525	021597	1600	13	--	0.07	0.14	0.03	--	0.05	0.13	0.02	0.03	0.07	0.06	0.08	0.06	--	0.09	0.08	--	0.00	0.05	0.06	0.06	0.00	0.09	0.07	----
526	021997	0300	8	--	0.05	0.05	0.00	--	0.05	0.00	0.00	0.00	0.06	0.00	0.03	0.00	--	0.06	0.00	--	0.04	0.00	0.02	0.00	0.00	0.00	0.00	----
527	022097	1100	39		3.56	2.38	3.02	--	2.19	1.80	2.64	2.69	2.14	1.78	1.51	2.59	--	1.85	1.95	--	2.51	2.21	1.66	1.43	0.00	1.22	2.34	----
528	022697	0400	35	--	1.66	1.26	1.28	--	1.23	1.45	1.10	1.34	1.32	1.46	1.43	1.33	--	1.34	1.96	--	0.77	1.48	1.30	1.28	0.00	1.38	1.23	----
529	022897	1700	8	--	0.25	0.18	0.18	--	0.13	0.14	0.17	0.16	0.11	0.17	0.06	0.16	--	0.18	0.17	--	0.00	0.30	0.17	0.09	0.00	0.08	0.05	----
530	030197	0100	21	--	0.06	0.07	0.17	--	0.13	0.10	0.20	0.13	0.12	0.05	0.10	0.09	--	0.09	0.10	--	0.06	0.06	0.08	0.04	0.00	0.15	0.06	----
531	030997	0500	9	--	0.75	0.87	0.88	--	0.74	0.50	0.96	0.80	0.50	0.72	0.72	0.95	--	0.67	1.25	--	1.26	0.94	0.88	1.10	1.11	1.12	0.91	----

Note: *Duration specified in hours. Values in boldface type exceed one-year or more recurrence frequency.

Table V-2. (Continued)

<i>Storm</i>	<i>Date</i>	<i>Hour</i>	<i>Duration*</i>	<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>	<i>5</i>	<i>6</i>	<i>7</i>	<i>8</i>	<i>9</i>	<i>10</i>	<i>11</i>	<i>12</i>	<i>13</i>	<i>14</i>	<i>15</i>	<i>16</i>	<i>17</i>	<i>18</i>	<i>19</i>	<i>20</i>	<i>21</i>	<i>22</i>	<i>23</i>	<i>24</i>	<i>25</i>
532	03 13 97	1400	13	--	0.54	0.46	0.00	--	0.48	0.59	0.35	0.50	0.52	0.57	0.35	0.46	--	0.18	0.71	--	0.53	0.54	0.52	0.18	0.29	0.48	0.42	----
533	031897	0100	11	--	0.08	0.05	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	--	0.00	0.09	--	0.00	0.20	0.09	0.05	0.00	0.00	0.08	----
534	032497	1200	5	--	0.30	0.24	0.35	--	0.29	0.28	0.37	0.37	0.35	0.18	0.31	0.34	--	0.14	0.29	--	0.38	0.34	0.30	0.25	0.34	0.23	0.25	----
535	032497	2300	7	--	0.14	0.05	0.11	--	0.10	0.07	0.13	0.11	0.14	0.01	0.02	0.13	--	0.00	0.03	--	0.16	0.06	0.06	0.00	0.05	0.01	0.14	----
536	032797	2400	5	--	0.03	0.00	0.00	--	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.03	--	0.00	0.04	--	0.06	0.04	0.00	0.00	0.00	0.00	0.04	----
537	03 3097	0400	9	--	0.15	0.08	0.08	--	0.09	0.11	0.05	0.09	0.11	0.09	0.12	0.08	--	0.09	0.13	--	0.08	0.05	0.07	0.10	0.05	0.05	0.00	----
538	040497	1400	34	--	0.80	0.49	0.25	--	0.35	0.32	0.34	0.24	0.28	0.14	0.50	0.22	--	0.22	0.37	--	0.38	0.34	0.27	0.17	0.23	0.32	1.32	----
539	040697	0300	4	--	0.00	0.00	0.00	--	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	--	0.00	0.00	--	0.00	0.00	0.00	0.00	0.05	0.00	0.00	----
540	041097	1200	35	--	1.52	1.38	1.53	--	0.93	1.00	0.98	0.98	0.89	0.95	0.77	0.90	--	0.70	0.62	--	0.66	0.95	0.56	0.43	0.38	0.44	0.74	----
541	041297	1100	14	--	0.00	0.00	0.08	--	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.00	--	0.00	0.00	--	0.00	0.00	0.00	0.10	0.00	0.00	0.00	----
542	041597	2300	4	--	0.09	0.04	0.00	--	0.11	0.04	0.07	0.09	0.10	0.06	0.09	0.13	--	0.14	0.18	--	0.18	0.12	0.11	0.12	0.00	0.11	0.08	----
543	041897	1700	9	--	0.17	0.00	0.00	--	0.18	0.00	0.02	0.04	0.00	0.00	0.09	0.11	--	0.00	0.07	--	0.00	0.00	0.04	0.04	0.00	0.03	0.00	----
544	042097	1600	8	--	0.00	0.00	0.00	--	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00	--	0.07	0.19	--	0.13	0.13	0.19	0.09	0.00	0.08	0.22	----
545	042197	0700	15	--	0.00	0.26	0.00	--	0.07	0.00	0.00	0.00	0.08	0.12	0.03	0.00	--	0.01	0.03	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00	----
546	042797	0200	10	--	0.05	0.08	0.00	--	0.07	0.04	0.00	0.00	0.05	0.00	0.06	0.00	--	0.07	0.06	--	0.06	0.04	0.08	0.00	0.00	0.06	0.00	----
547	043097	0500	2	--	0.04	0.00	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00	----
548	043097	1200	4	--	0.24	0.33	0.00	--	0.24	0.15	0.21	0.24	0.25	0.19	0.11	0.12	--	0.31	0.00	--	0.11	0.20	0.50	0.09	0.29	0.18	0.16	----
549	050297	0600	5	--	0.09	0.07	0.04	--	0.04	0.03	0.06	0.00	0.04	0.04	0.07	0.07	--	0.05	0.05	--	0.07	0.18	0.08	0.05	0.04	0.08	0.08	----
550	050297	2400	9	--	0.25	0.22	0.48	--	0.25	0.25	0.50	0.82	0.44	0.37	0.32	0.61	--	0.42	0.41	--	0.72	0.68	0.60	0.46	0.49	0.36	0.40	----
551	050397	1200	4	--	0.02	0.04	0.03	--	0.00	0.08	0.02	0.00	0.13	0.02	0.03	0.00	--	0.07	0.03	--	0.00	0.00	0.04	0.08	0.03	0.07	0.00	----
552	050797	1300	4	--	0.00	0.06	0.00	--	0.00	0.04	0.01	0.00	0.00	0.00	0.00	0.00	--	0.02	0.00	--	0.00	0.05	0.02	0.00	0.00	0.00	0.00	----
553	050797	2200	9	--	0.20	0.24	0.25	--	0.28	0.27	0.37	0.31	0.31	0.33	0.30	0.64	--	0.45	0.40	--	0.64	0.74	0.80	0.66	0.67	0.67	0.39	----
554	051197	1500	2	--	0.00	0.00	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00	--	0.00	0.00	0.00	0.02	0.03	0.00	0.03	----
555	051397	2400	5	--	0.00	0.00	0.00	--	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.00	--	0.00	0.12	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00	----
556	051697	1600	2	--	0.00	0.00	0.00	--	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	--	0.00	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00	----
557	051697	2100	6	--	0.00	0.03	0.02	--	0.06	0.05	0.00	0.00	0.26	0.00	0.04	0.00	--	0.00	0.34	--	0.00	0.00	0.04	0.02	0.00	0.29	0.00	----
558	051897	0700	6	--	0.07	0.13	0.08	--	0.07	0.00	0.09	0.10	0.07	0.07	0.08	0.08	--	0.12	0.11	--	0.11	0.09	0.12	0.09	0.09	0.11	0.09	----
559	051897	2100	II	--	0.18	0.20	0.15	--	0.18	0.25	0.16	0.17	0.22	0.27	0.35	0.64	--	0.33	0.25	--	0.51	0.38	0.36	0.57	0.63	0.47	0.35	----
560	052497	1500	6	--	0.05	0.06	0.00	--	0.04	0.04	0.00	0.00	0.05	0.00	0.10	0.00	--	0.00	0.00	--	0.00	0.00	0.00	0.05	0.10	0.17	0.00	----
561	052597	1600	27	--	0.71	0.74	1.11	--	0.72	1.07	1.45	1.35	1.14	1.20	1.89	1.70	--	1.89	2.63	--	1.14	0.57	0.76	0.73	0.90	1.08	1.15	----
562	052797	1500	9	--	0.13	0.15	0.26	--	0.18	0.12	0.30	0.37	0.27	0.25	0.16	0.22	--	0.27	0.25	--	0.24	0.29	0.33	0.20	0.32	0.24	0.34	----
563	052897	1400	9	--	0.00	0.05	0.00	--	0.00	0.08	0.00	0.00	0.08	0.00	0.29	0.14	--	0.00	0.05	--	0.00	0.02	0.00	0.03	0.00	0.28	0.00	----
564	060197	1400	18	--	0.08	0.14	0.00	--	0.09	0.10	0.00	0.00	0.06	0.07	0.12	0.00	--	0.00	0.00	--	0.02	0.00	0.05	0.05	0.09	0.19	0.00	----
565	060697	0400	12	--	0.82	0.56	0.00	--	0.30	0.89	0.34	0.38	0.00	0.43	0.46	0.23	--	0.41	0.27	--	0.25	0.19	0.33	0.43	0.46	0.56	0.34	----
566	060797	1300	20	--	0.15	0.10	0.00	--	0.30	0.18	0.32	0.41	0.00	0.29	0.43	0.36	--	0.25	0.36	--	0.98	0.38	0.26	0.29	0.18	0.27	0.75	----
567	060897	1200	3	--	0.00	0.03	0.00	--	0.00	0.00	0.00	0.00	0.00	0.01	0.03	0.00	--	0.00	0.02	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00	----
568	061097	2200	8	--	0.00	0.00	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00	--	0.00	0.09	0.00	0.00	0.00	0.00	0.40	----
569	06 11 97	2000	8	--	0.00	0.00	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00	--	0.13	0.00	0.10	0.00	0.56	0.28	0.00	----

Note: *Duration specified in hours. Values in boldface type exceed one-year or more recurrence frequency.

Table V-2. (Concluded)

<i>Storm</i>	<i>Date</i>	<i>Hour</i>	<i>Duration*</i>	<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>	<i>5</i>	<i>6</i>	<i>7</i>	<i>8</i>	<i>9</i>	<i>10</i>	<i>11</i>	<i>12</i>	<i>13</i>	<i>14</i>	<i>15</i>	<i>16</i>	<i>17</i>	<i>18</i>	<i>19</i>	<i>20</i>	<i>21</i>	<i>22</i>	<i>23</i>	<i>24</i>	<i>25</i>
570	061297	0900	10	--	1.34	1.16	0.00	--	1.41	1.04	0.90	1.18	0.00	0.87	0.69	0.62	--	0.00	1.62	--	0.05	0.07	0.03	0.00	0.04	0.14	0.00	----
571	061597	2100	8	--	0.04	0.08	0.00	--	0.03	0.00	0.04	0.11	0.00	0.04	0.02	0.09	--	0.00	0.03	--	0.02	0.00	0.03	0.15	0.00	0.00	0.09	----
572	062097	0800	4	--	0.07	0.00	0.00	--	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	1.03	--	0.00	0.00	0.09	0.00	0.10	0.05	0.00	----
573	062197	0500	3	--	0.00	0.00	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00	--	0.00	0.12	0.05	0.00	0.00	0.00	0.26	----
574	062597	1500	6	--	0.10	0.38	0.00	--	0.07	0.08	0.08	0.00	0.06	0.10	0.07	0.06	--	0.00	0.09	--	0.09	0.06	0.08	0.05	0.08	0.10	0.07	----
575	062997	1500	2	--	0.00	0.00	0.00	--	0.00	0.00	0.18	0.49	0.00	0.00	0.00	0.05	--	0.00	0.00	--	0.00	0.12	0.00	0.08	0.28	0.00	0.00	----
576	063097	0300	3	--	0.00	0.00	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	--	0.00	0.00	--	0.00	0.24	0.16	0.00	0.00	0.00	0.00	---
577	063097	1200	13	--	0.07	0.00	0.15	--	0.00	0.27	0.15	0.00	0.09	0.03	0.13	0.23	--	0.00	0.08	--	0.05	0.07	0.62	0.24	0.10	0.00	0.72	----
578	070397	1000	14	--	0.22	0.10	0.00	--	0.20	0.15	0.26	0.22	0.00	0.25	0.27	0.32	--	0.44	0.56	--	0.30	0.33	0.35	0.36	0.41	0.37	0.28	----
579	071397	1500	2	--	0.00	0.00	0.00	--	0.00	0.00	0.19	0.00	0.00	0.17	0.00	0.00	--	0.00	0.00	--	0.00	0.12	0.00	0.00	0.00	0.04	0.00	----
580	071997	1200	11	--	0.21	0.47	0.00	--	0.20	0.37	1.00	1.25	1.03	0.96	0.39	1.65	--	0.81	1.23	--	0.23	2.74	3.89	3.98	2.64	1.05	1.28	----
581	072097	0500	2	--	0.00	0.00	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00	--	0.00	0.00	0.00	0.00	0.00	0.08	0.00	----
582	072197	0500	19	--	0.07	0.37	0.00	--	0.75	1.02	0.34	0.42	1.12	1.28	1.28	0.98	--	1.14	1.16	--	0.49	0.12	0.07	0.24	0.11	0.08	0.20	----
583	072797	1700	8	--	0.16	0.07	0.00	--	0.00	0.30	0.00	0.07	0.00	0.00	0.03	0.99	--	0.88	0.37	--	1.77	0.00	0.59	0.29	0.75	0.60	0.00	----
584	080397	1700	15	--	0.69	0.59	0.00	--	0.08	0.15	1.53	0.68	0.58	0.07	0.05	1.14	--	0.43	0.31	--	0.65	0.78	1.07	0.42	0.23	0.08	0.57	----
585	080897	2400	10	--	0.78	0.58	0.00	--	0.12	0.53	0.26	0.74	1.01	0.65	0.41	0.52	--	1.29	0.62	--	0.15	1.03	0.98	0.47	0.47	0.30	0.20	----
586	080997	1600	2	--	0.00	0.00	0.00	--	0.00	0.12	0.00	0.00	0.00	0.00	0.17	0.00	--	0.00	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00	----
587	081197	0100	4	--	0.10	0.38	0.00	--	0.12	0.07	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00	----
588	081197	2000	5	--	0.07	0.00	0.00	--	0.00	0.00	0.00	0.11	0.00	0.04	0.17	0.00	--	0.07	0.17	--	0.00	0.06	0.08	0.24	0.45	0.21	0.06	----
589	081297	1300	6	--	0.04	0.25	0.00	--	0.20	0.23	0.00	0.47	0.83	0.48	0.36	0.09	--	0.10	0.23	--	0.00	0.43	0.25	0.20	0.35	0.41	0.00	----
590	081597	0100	5	--	0.15	0.19	0.00	--	0.18	0.21	0.20	0.35	0.17	0.23	0.24	0.24	--	0.28	0.49	--	0.15	0.29	0.27	0.39	0.46	0.64	0.19	----
591	081697	2300	15	--	3.06	2.44	0.00	--	1.49	1.78	0.06	1.46	1.13	1.96	1.27	1.24	--	1.70	1.64	--	1.14	1.39	1.59	1.36	1.12	1.70	1.18	----
592	081797	1900	1	--	0.00	0.00	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00	--	0.00	0.07	0.00	0.00	0.00	0.00	0.00	----
593	081997	0800	9	--	0.21	0.18	0.00	--	0.24	0.29	0.39	0.28	0.26	0.24	0.21	0.39	--	0.26	0.33	--	0.43	0.29	0.24	0.00	0.16	0.21	0.48	----
594	082197	0700	2	--	0.03	0.00	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	--	0.00	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00	----
595	082197	1500	8	--	0.16	0.11	0.00	--	0.06	0.04	0.18	0.14	0.09	0.03	0.00	0.07	--	0.10	0.18	--	0.11	0.06	0.02	0.17	0.16	0.04	0.04	----
596	082497	1300	11	--	0.29	0.06	0.00	--	0.44	0.30	0.00	0.92	0.00	0.00	0.29	0.11	--	0.54	0.13	--	0.00	0.88	0.78	0.72	0.17	0.04	0.08	----
597	082697	0600	4	--	0.00	0.00	0.00	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	--	0.00	0.00	--	0.15	0.08	0.00	0.00	0.00	0.00	0.18	----
598	083097	0700	8	--	0.13	0.56	0.00	--	0.58	0.51	0.42	0.34	0.28	0.72	0.94	0.62	--	0.36	0.53	--	0.44	0.32	0.38	0.38	0.49	0.18	0.21	----

Note: *Duration specified in hours. Values in boldface type exceed one-year or more recurrence frequency.

